STR-DE425

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model

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SPECIFICATIONS

Amplifier section

Power output

Stereo mode: (DIN 1 kHz, 4 ohms) 90 W + 90 W

Surround mode: (DIN 1 kHz, 4 ohms) Front: 90W/ch, Centre: 90W (only in PRO LOG IC MODE), REAR: (DIN 1 kHZ, 8ohms) 45 W/ch

5.1/DVD INPUT * mode: Front: 90 W/ch (DIN 1 kHz, 4 ohms), Centre: 90 W (DIN 1 kHz, 4 ohms), Rear: 45 W/ch (DIN 1 kHz, 8 ohms)

Frequency response: PHONO: RIAA equalization curve ±0.5 dB, TV / LD, CD, TAPE / MD, VIDEO, 5.1/DVD INPUT: 10Hz - 50kHz ±1dB

Input

	Sensitivity	Impedance	S/N (Weighting network, input level)
PHONO (MM)	2.5mV	50 kilohms	74 dB 72 dB** (A, 2.5 mV)
CD, 5.1/DVD INPUT*	200 mV	50 kilohms	82 dB 82 dB** (A, 150 mV)
TAPE/MD, TV/LD, VIDEO	150 mV		

**'78IHF

Outputs:
TAPE/MD REC OUT: Voltage: 150 mV, Impedance: 10 kilohms
VIDEO AUDIO OUT: Voltage: 150 mV, Impedance: 10 kilohms
WOOFER/MIX AUDIO OUT: Voltage: 2V Impedance: 10 kilohms
PHONES: Accepts low and high impedance headphones

Muting: Full mute
BASS BOOST: +10dB at 70 Hz
TONE: ±8dB at 100 Hz and 10 kHz

FM tuner section

Tuning range: 87.5 – 108.0 MHz
Aerial terminals: 75 ohms, unbalanced
Sensitivity: Mono: 18.3 dBf, 2.2µV /75 ohms; Stereo: 38.3 dBf, 22.5µV /75 ohms
Usable sensitivity: 11.2 dBf, 1V /75 ohms (IHF)
S/N: Mono: 76 dB; Stereo: 70dB
Harmonic distortion at 1 kHz: Mono: 0.3 %; Stereo: 0.5 %
Separation: 45dB at 1 kHz
Frequency response: 30 Hz – 15kHz $^{+0.5}_{-2}$ dB
Selectivity: 60 dB at 400 kHz

AM tuner section

Tuning range: 531 – 1602 kHz
Aerial: Loop aerial
Usable sensitivity: 50 dB/m (at 999 kHz)
S/N: 54 dB(at 50 mV/m)
Harmonic distortion: 0.5%(50 mV/m, 400Hz)
Selectivity: 35 dB

Video section

Input: VIDEO 1, 2, TV: 1 Vp-p 75 ohms
Output: VIDEO 1, 2, MONITOR: 1 Vp-p 75 ohms

General

System: Tuner section; PLL quartz-locked digital synthesizer system
Preamplifier section: Low-noise NF type epualizer
Power amplifier section: Pure-complimentary SEPP
Power requirements: 230 V AC, 50/60 Hz
Power consumption: 230 W
AC outlets: Switched 100 W (except for the U.K. model)

— Continued on next page —

FM STEREO/FM-AM RECEIVER

MICROFILM

SONY®

Dimensions	430 × 145 × 295 mm
Mass(Approx.)	STR-DE425: 7.9 kg
Supplied accessories	FM wire aerial (1) AM loop aerial (1) Remote controller (remote) (1) Size AA (R6) batteries (2)

Design and specifications are subject to change without notice.
Specifications indicated are measured at 230 VAC, 50 Hz

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

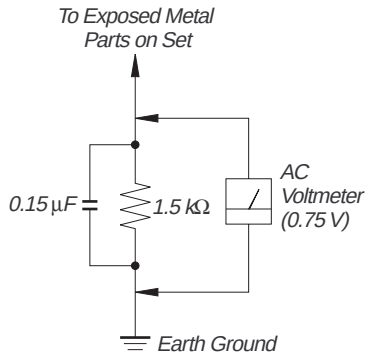


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

TABLE OF CONTENTS

1. GENERAL ····· 3

2. TEST MODE ····· 4

3. DIAGRAMS

3-1. Circuit Boards Location ····· 5
3-2. Block Diagram ····· 7
3-3. Schematic Diagram — Display Section — ····· 9
3-4. Printed Wiring Board — Display Section — ····· 11
3-5. Schematic Diagram — Power Section — ····· 13
3-6. Printed Wiring Board — Power Section — ····· 15
3-7. Printed Wiring Board — Main Section — ····· 17
3-8. Schematic Diagram — Main Section (1/3) — ····· 19
3-9. Schematic Diagram — Main Section (2/3) — ····· 21
3-10. Schematic Diagram — Main Section (3/3) — ····· 23
3-11. IC Pin Function Description ····· 25
3-12. IC Block Diagrams ····· 27

4. EXPLODED VIEWS

4-1. Front Panel Section ····· 29
4-2. Chassis Section ····· 30

5. ELECTRICAL PARTS LIST ····· 31

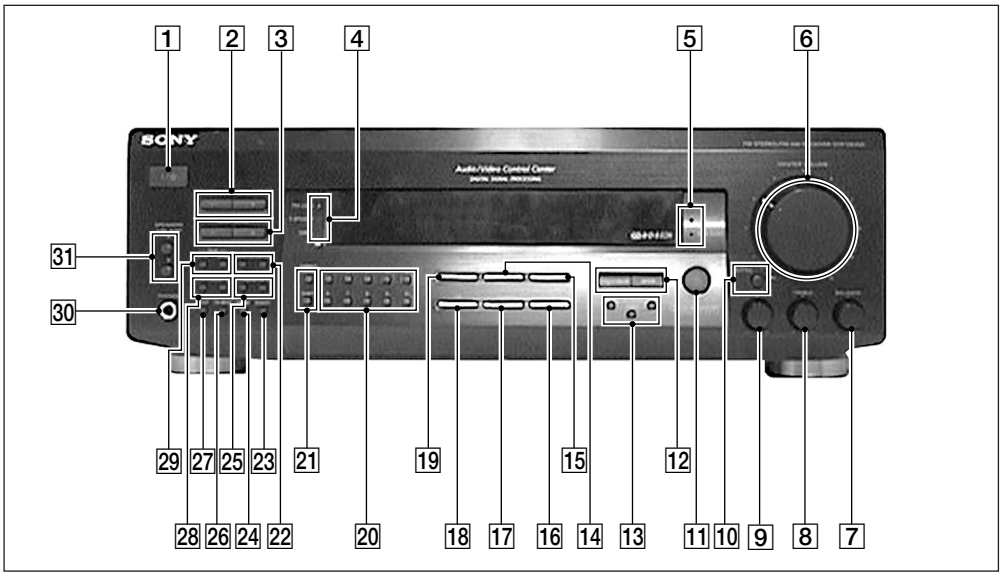
ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

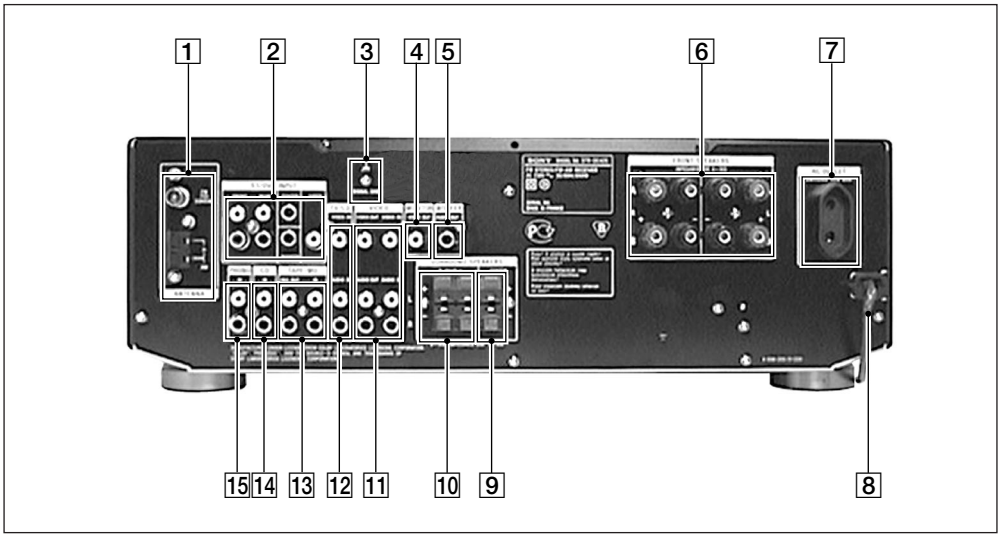
LOCATION AND FUNCTION OF CONTROLS

[FRONT PANEL]



1 POWER switch (I/⏻)
2 CENTER LEVEL +, – buttons
3 REAR LEVEL +, – buttons
4 PRO LOGIC, C.STUDIO, HALL indicators
5 5.1/DVD INPUT, BASS BOOST indicators
6 MASTER VOLUME control
7 BALANCE control
8 TREBLE control
9 BASS control
10 MUTING button/indicator
11 SURROUND ON/OFF button
12 SURROUND EFFECT/DELAY, MODE buttons
13 SET UP, 5.1/DVD INPUT, BASS BOOST buttons
14 TV/LD button
15 TAPE/MD button
16 PHONO button
17 TUNER button
18 CD button
19 VIDEO button
20 Numeric buttons
21 DIRECT TUNING, SHIFT buttons
22 CHARACTER, DISPLAY buttons
23 MEMORY button
24 FM/AM button
25 PRESET/CHARACTER +, – buttons
26 FM MODE button
27 SLEEP button
28 TUNING/PTY SELECT +, – buttons
29 RDS PTY, EON buttons
30 PHONES jack
31 SPEAKERS A, B ON/OFF buttons

[REAR PANEL]



1 ANTENNA (FM/AM)
2 5.1/DVD INPUT
3 ⏚ SIGNAL GND
4 MONITOR
5 WOOFER
6 FRONT SPEAKERS (A/B)
7 AC OUTLET
8 AC power cord
9 SURROUND SPEAKERS (CENTER)
10 SURROUND SPEAKERS (REAR)
11 VIDEO
12 TV/LD
13 TAPE/MD
14 CD
15 PHONO

SECTION 2
TEST MODE

INITIALIZATION MODE

* All preset contents are cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:

While depressing the VIDEO and the TAPE/MD buttons simultaneously, press the power [I/⏻] button to turn on the main power. The message INITIAL appears and initialization is performed.

FLUORESCENT INDICATOR TUBE TEST MODE

* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment tums on one after another.
* Procedure:

While depressing the TV/LD and the BASS BOOST buttons simultaneously, press the power [I/⏻] button to turn on the main power. All segments turn on at the same time, then each segment turns on one after another. The message FINISH appears when this test is complete.

AUTO-BETICAL CHECK MODE

* To auto-scanning FM board and memorise RDS station. (FM/RDS model only)
* Procedure:

While depressing the MEMORY button, press the power [I/⏻] button to turn on the main power. The message AUTO BET appears and each function is selected one after another.

AM CHANNEL STEP 9 kHz/10 kHz SELECTION MODE

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step. (US, CND and E model only)
* Procedure:

Set the FUNCTION to AM. Turn off the main power.
While depressing the TUNING+ button, press the power [I/⏻] button to turn on the main power. Either the message 9k STEP or 10k STEP appears. Select the desired step.

REAR SPEAKER GAIN UP MODE

* The rear speaker gain can be set to either NORMAL or GAIN UP.
* Procedure:

While depressing the -SURROUND- MODE button, press the power [I/⏻] button to turn on the main power. Either the message NORMAL or GAIN UP appears. When the product enters this mode again, the other gain appears. Select the desired gain.

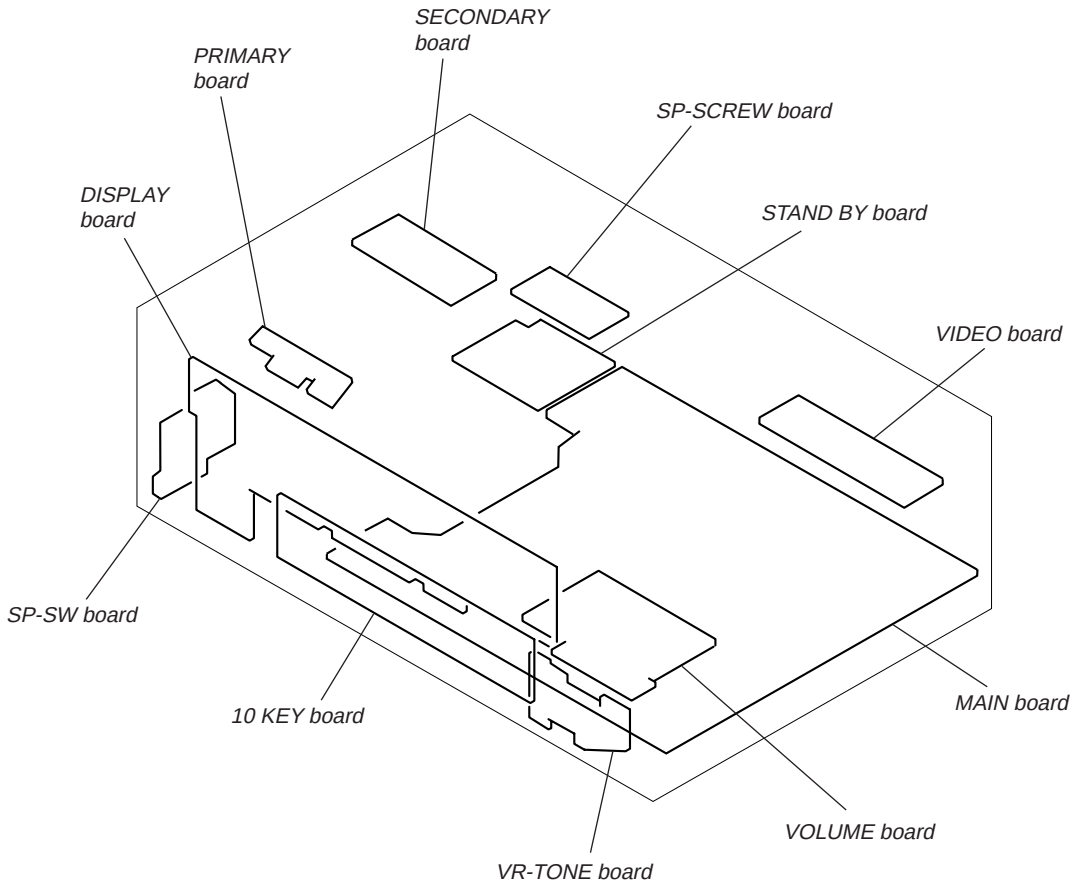
SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.
* Procedure:

While depressing the TUNER and the BASS BOOST buttons simultaneously, press the power [I/⏻] button to turn on the main power. The software version is displayed.

SECTION 3
DIAGRAMS

3-1. CIRCUIT BOARDS LOCATION



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

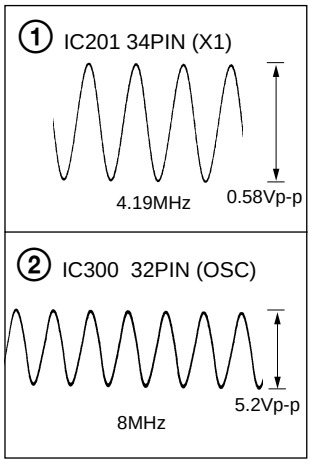
Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM
- Abbreviation
  CND : Canadian
  EE : East European
  AUS : Australian
  CH : Chinese
  G : German
  MY : Malaysia
  SP : Singapore

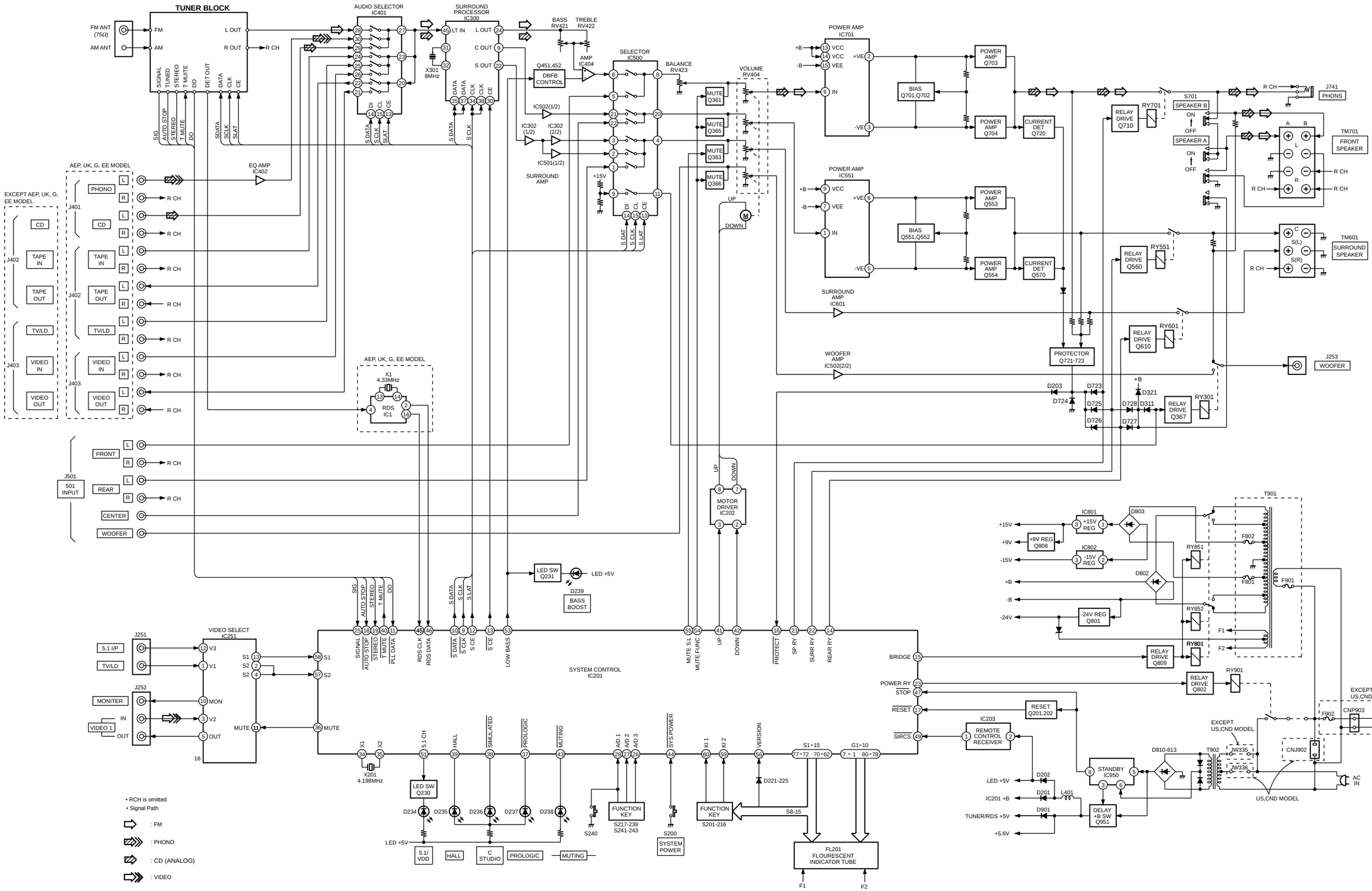
For printed wiring boards.
Note:

- ○——— : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- ▒▒ : Pattern from the side which enables seeing.

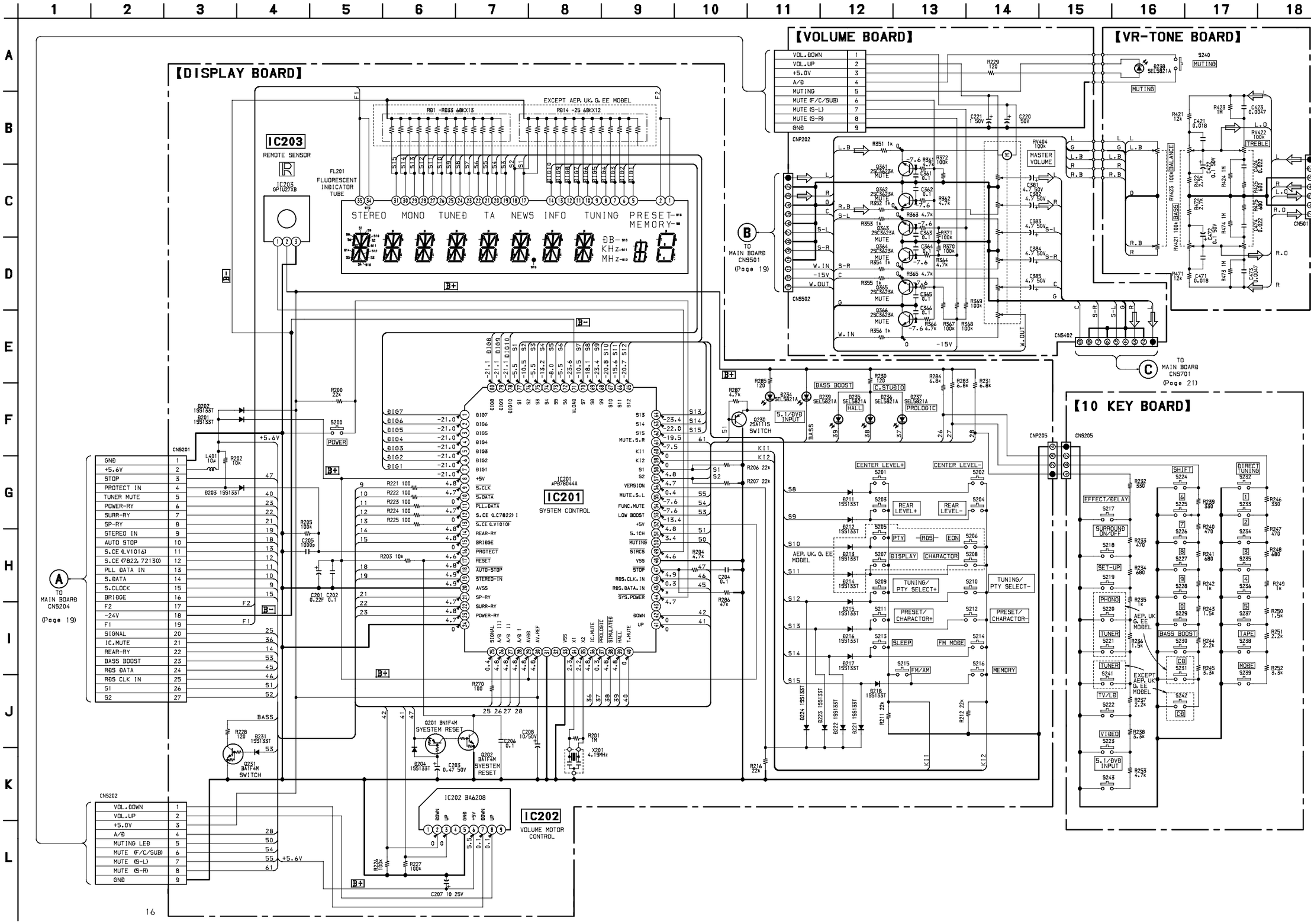
• Waveform



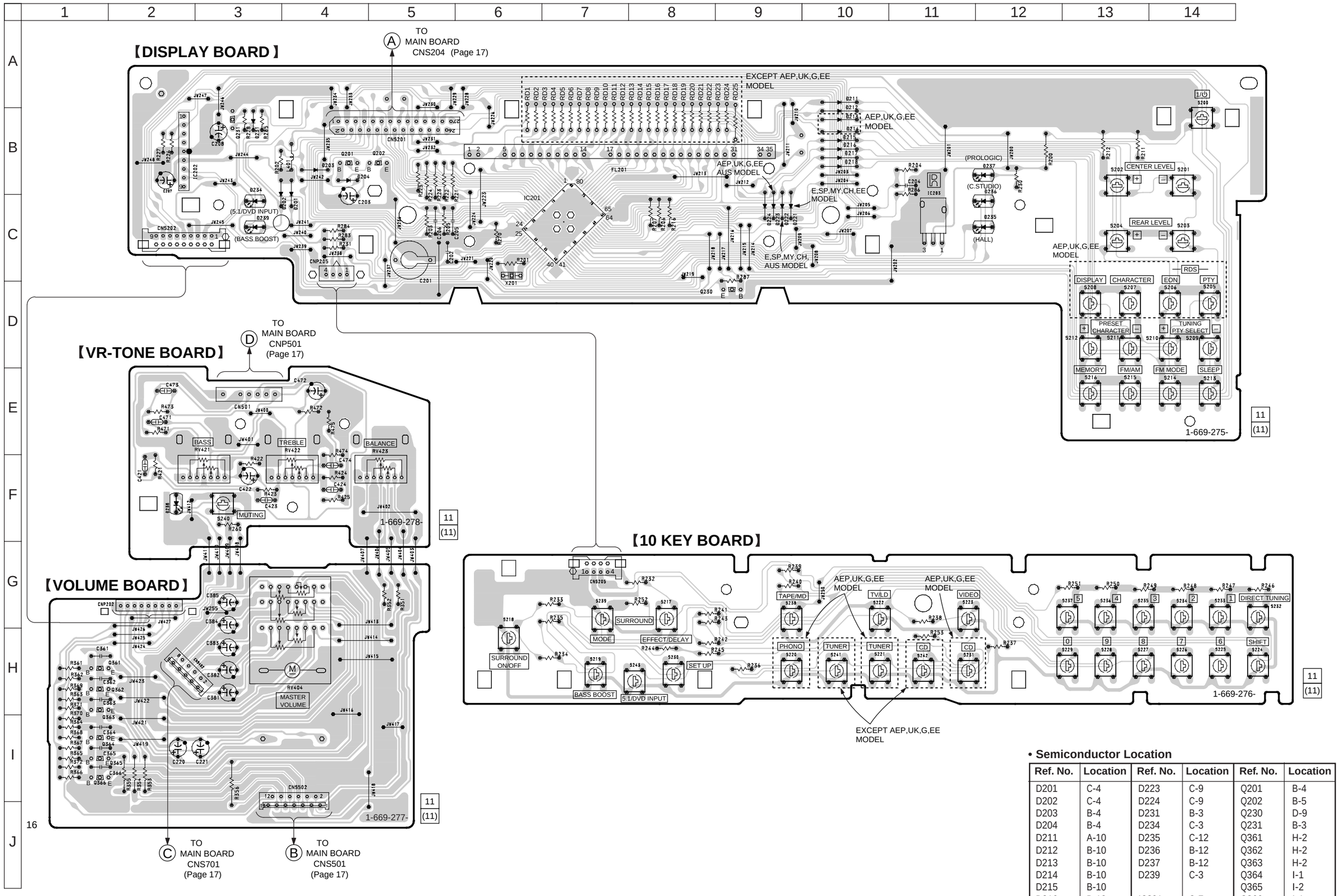
3-2. BLOCK DIAGRAM



3-3. SCHEMATIC DIAGRAM — DISPLAY SECTION —



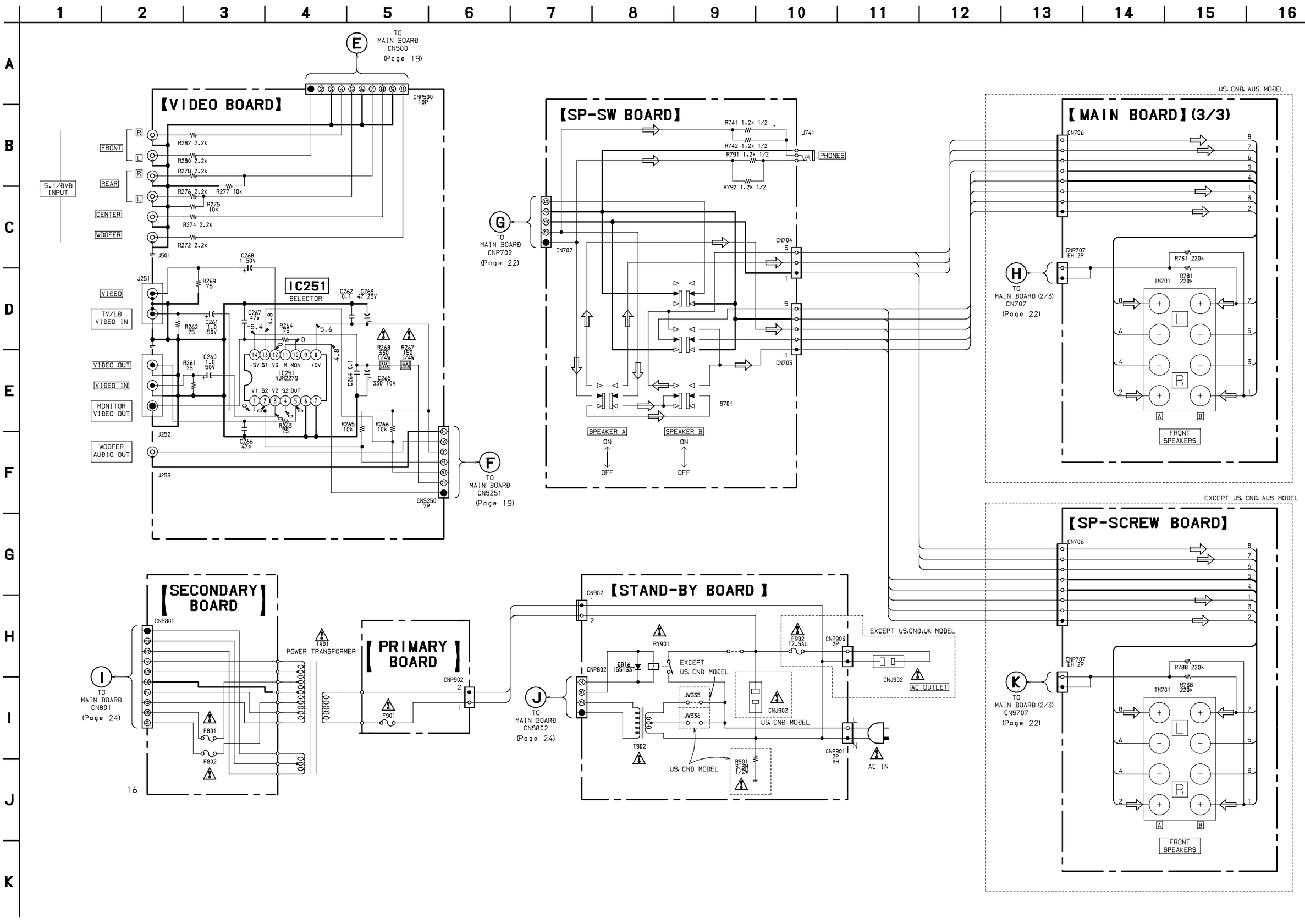
3-4. PRINTED WIRING BOARDS — DISPLAY SECTION —



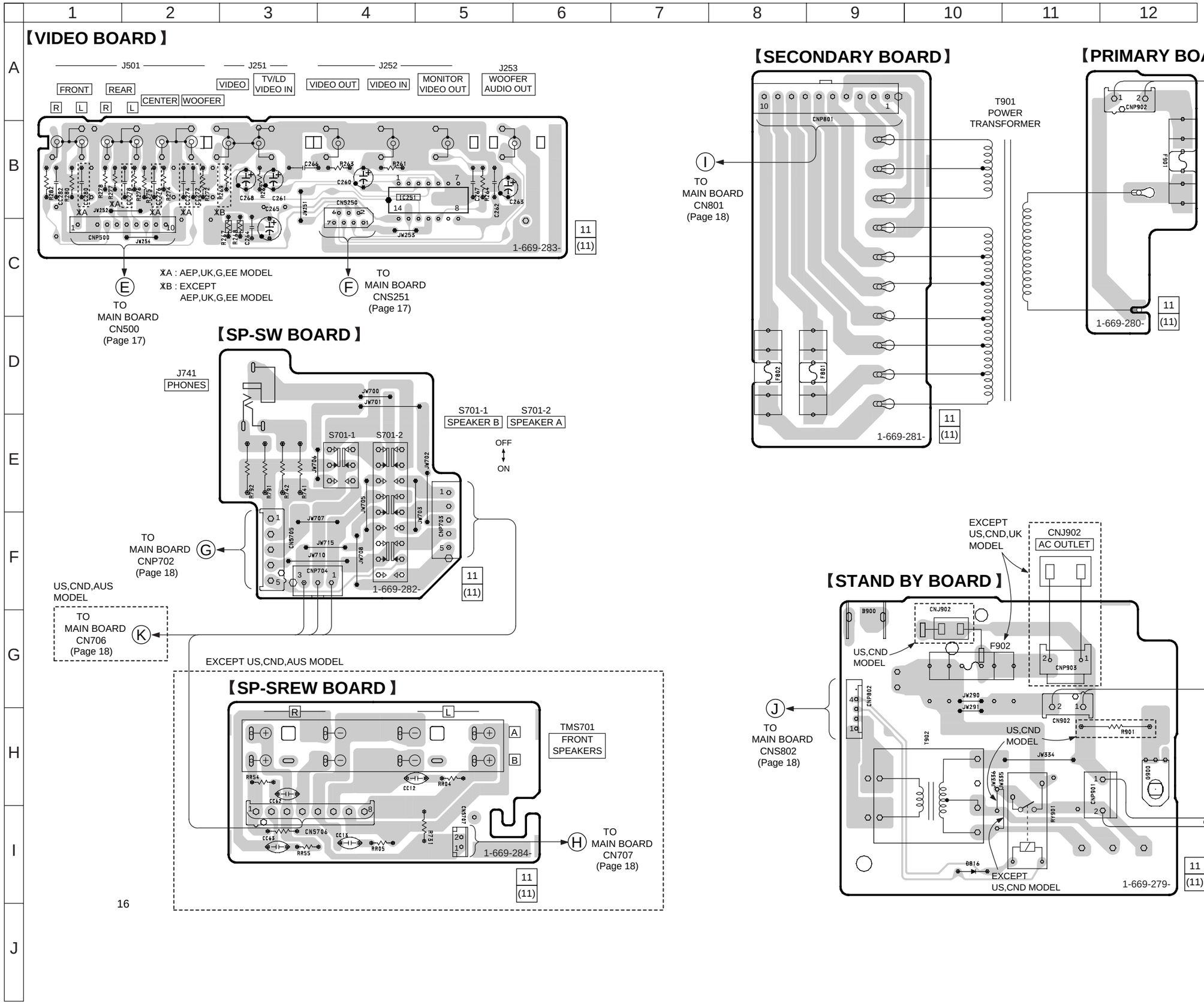
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D201	C-4	D223	C-9	Q201	B-4
D202	C-4	D224	C-9	Q202	B-5
D203	B-4	D231	B-3	Q230	D-9
D204	B-4	D234	C-3	Q231	B-3
D211	A-10	D235	C-12	Q361	H-2
D212	B-10	D236	B-12	Q362	H-2
D213	B-10	D237	B-12	Q363	H-2
D214	B-10	D239	C-3	Q364	I-1
D215	B-10			Q365	I-2
D216	B-10	IC201	C-7	Q366	I-1
D217	B-10	IC202	B-2		
D218	B-10	IC203	B-11		
D221	C-9				
D222	C-9				

3-5. SCHEMATIC DIAGRAM — POWER SECTION —



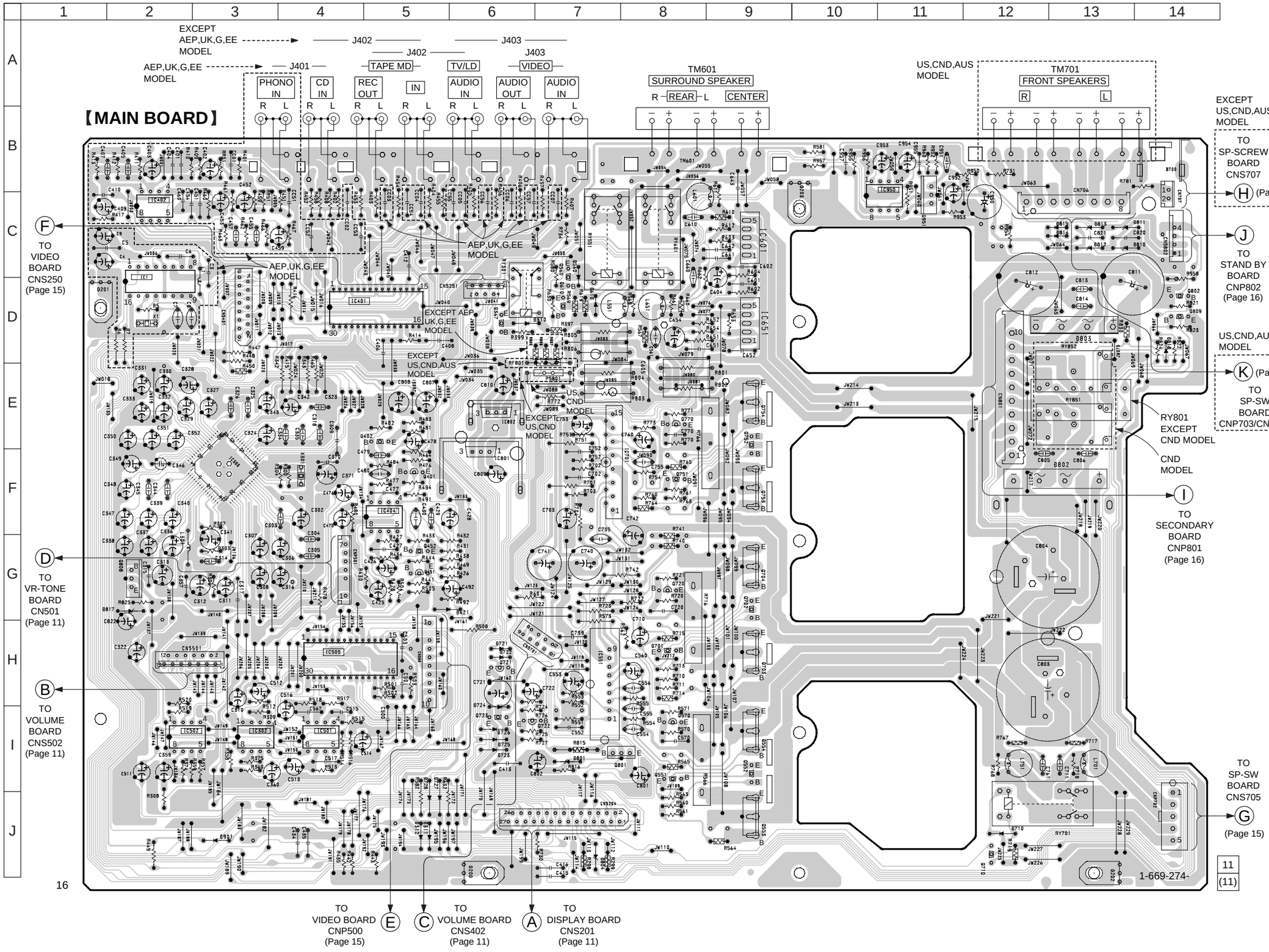
3-6. PRINTED WIRING BOARDS — POWER SECTION —



• **Semiconductor Location**

Ref. No.	Location
D816	I-10
IC251	B-4

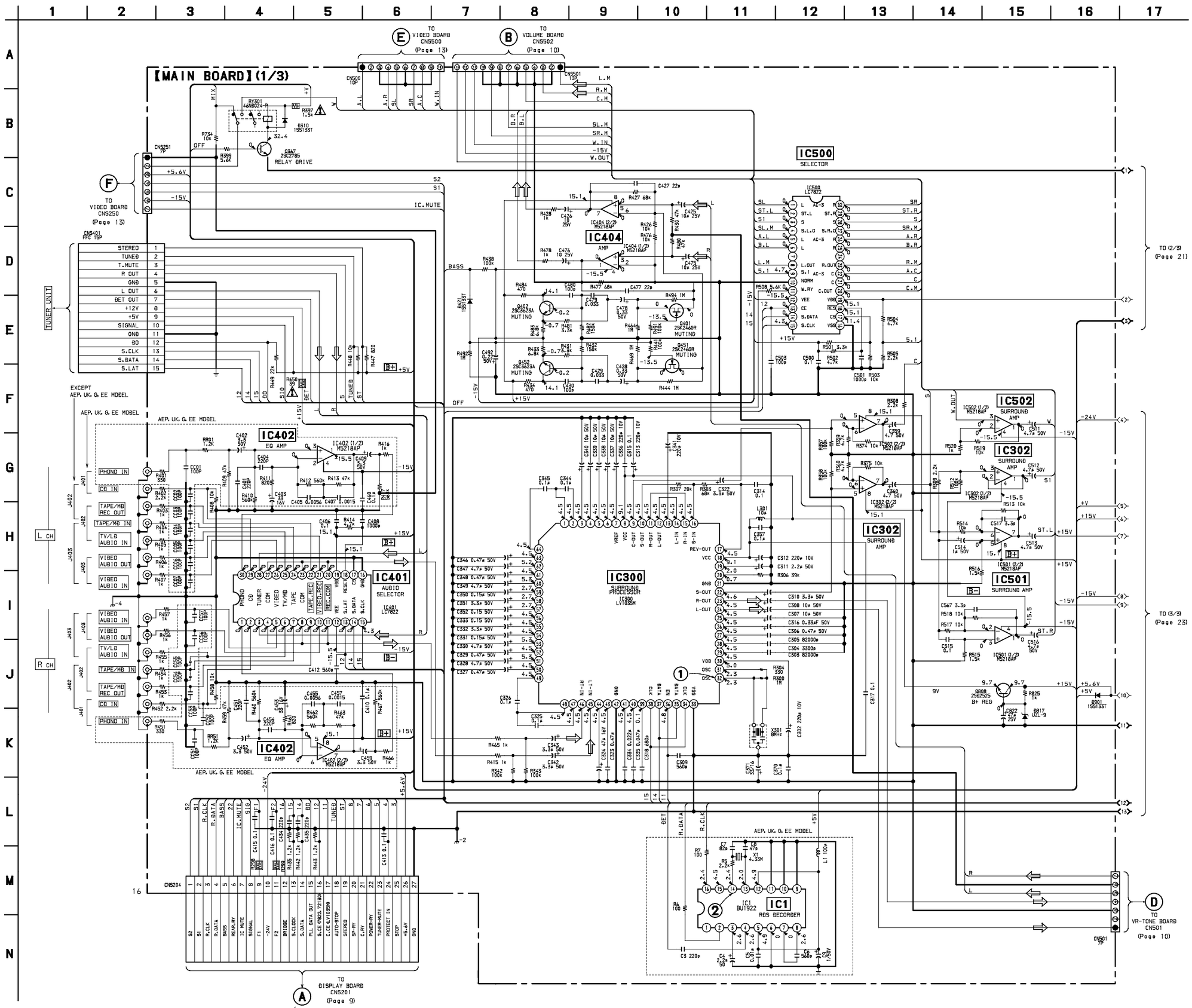
3-7. PRINTED WIRING BOARD — MAIN SECTION —



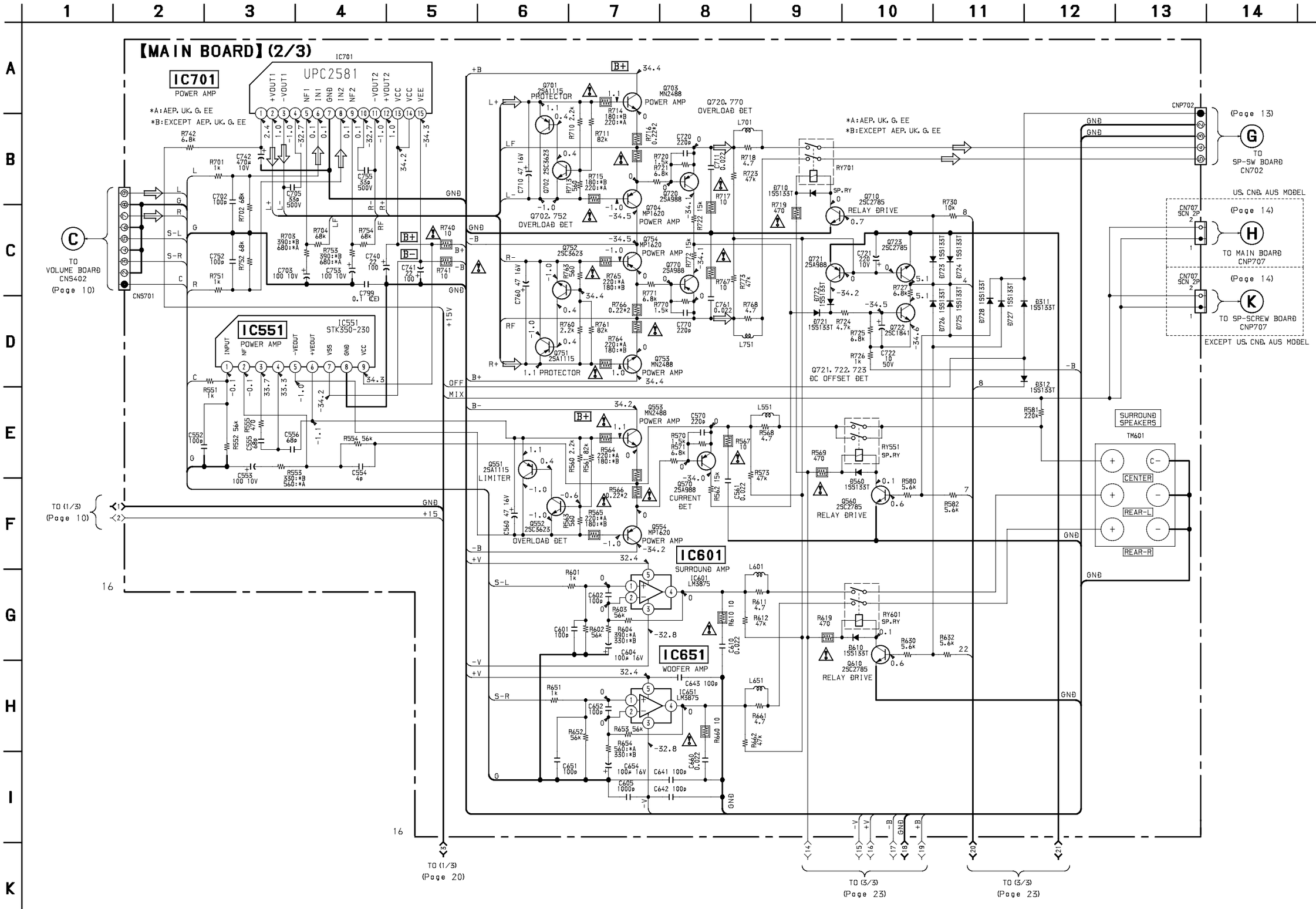
• **Semiconductor Location**

Ref. No.	Location
D310	D-6
D311	J-5
D312	J-5
D421	G-5
D560	C-7
D610	D-7
D710	J-12
D721	H-6
D722	H-6
D723	I-6
D724	I-6
D725	I-6
D726	I-6
D727	I-5
D728	I-5
D801	I-7
D802	F-13
D803	D-13
D804	J-7
D810	C-13
D811	C-13
D812	C-13
D813	C-13
D814	C-13
D815	C-13
D817	G-2
D818	D-14
D901	J-3
IC1	D-2
IC300	F-3
IC302	I-3
IC401	D-4
IC402	C-2
IC404	F-5
IC500	H-4
IC501	I-4
IC502	I-2
IC551	H-7
IC601	C-9
IC651	D-9
IC701	F-7
IC801	F-6
IC802	E-6
IC950	B-11
Q367	D-6
Q401	F-5
Q402	E-5
Q451	G-5
Q452	G-5
Q551	I-8
Q552	I-9
Q553	J-9
Q554	I-9
Q560	C-7
Q570	I-8
Q610	D-7
Q701	H-8
Q702	G-9
Q703	H-9
Q704	G-9
Q710	J-12
Q720	G-8
Q721	H-6
Q722	I-7
Q723	I-6
Q751	F-8
Q752	E-9
Q753	F-9
Q754	E-9
Q770	E-8
Q801	I-7
Q802	D-14
Q808	G-2
Q809	D-14
Q951	C-11

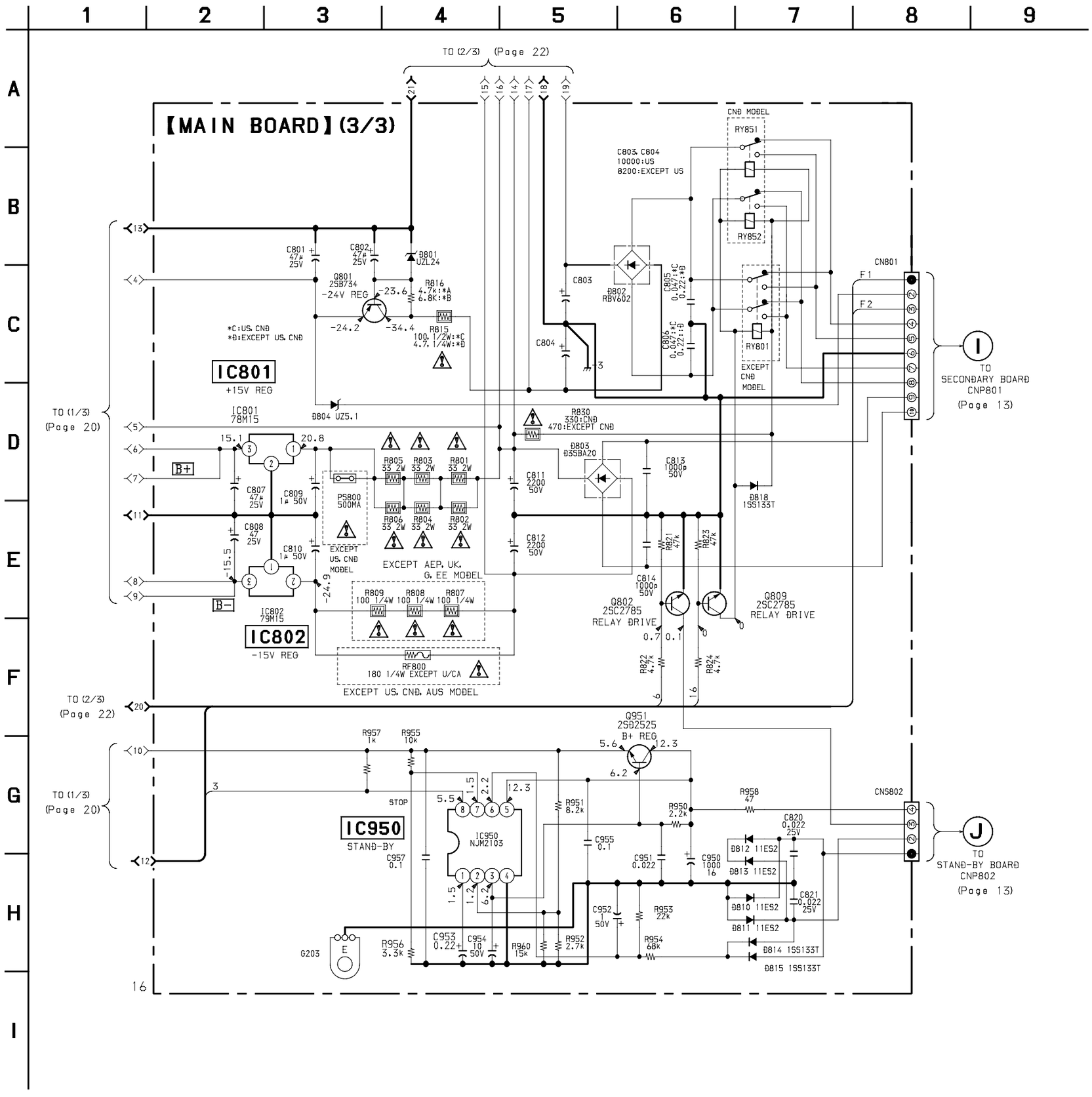
3-8. SCHEMATIC DIAGRAM — MAIN SECTION (1/3) —



3-9. SCHEMATIC DIAGRAM — MAIN SECTION (2/3) —



3-10. SCHEMATIC DIAGRAM — MAIN SECTION (3/3) —



3-11. IC PIN FUNCTION DESCPIRTION

• IC201 µPD78044FGF-112-3B9

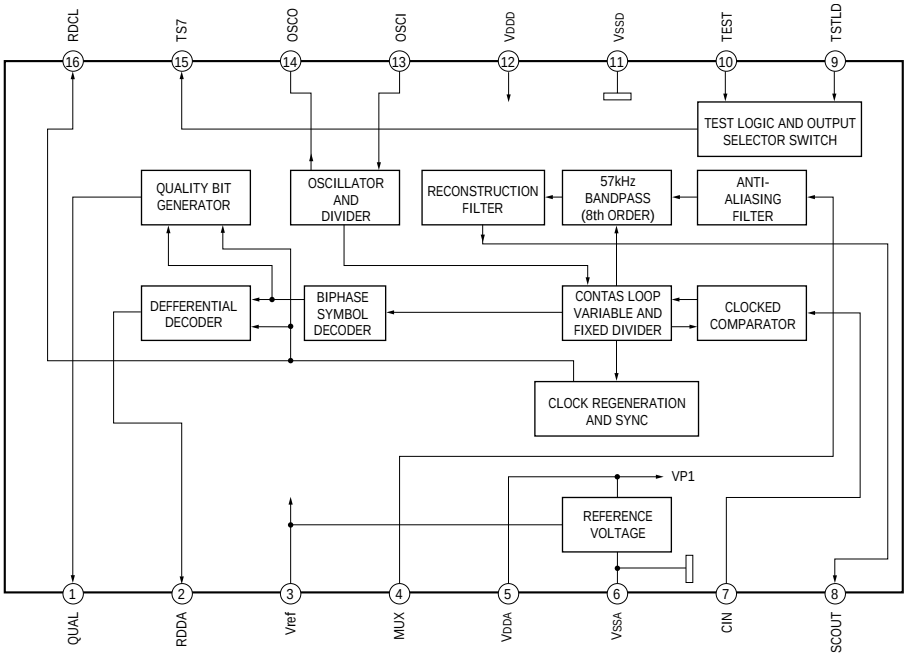
Pin No.	Pin Name	I/O	Description
1	DIG7	O	Fluorescent indicator tube drive.
2	DIG6	O	
3	DIG5	O	
4	DIG4	O	
5	DIG3	O	
6	DIG2	O	
7	DIG1	O	
8	+5V	—	Power supply (+5V).
9	$\overline{\text{S. CLK}}$	O	System clock.
10	$\overline{\text{S. DATA}}$	O	System data.
11	$\overline{\text{PLL. DATA}}$	I	PLL data input from TU001.
12	S. CE (LC7288)	O	Chip enable output.
13	$\overline{\text{S. CE (LV100)}}$	O	Chip enable output.
14	REAR-R	O	Input for model select.
15	BRIDGE	O	Relay control.
16	$\overline{\text{PROTECT}}$	I	Relay control.
17	$\overline{\text{RESET}}$	I	System reset terminal.
18	$\overline{\text{AUTO-STOP}}$	I	Auto stop detect input.
19	$\overline{\text{STEREO-IN}}$	I	Stereo detect input.
20	AVss	—	Ground.
21	SP-RY	O	Speaker relay drive.
22	SURR-RY	O	Surround Relay.
23	POWER-RY	O	Power relay drive.
24	AVss	—	Ground.
25	SIGNAL	I	A/D signal input terminal.
26	A/D3	I	A/D3 key input terminal.
27	A/D2	I	A/D2 key input terminal.
28	A/D1	I	A/D1 key input terminal.
29	AVDD	—	Power supply (+5V).
30	AV. REF	—	Reference voltage (+5V).
31	GND	—	Ground.
32	NC	—	Not used (Open).
33	Vss	—	Ground.
34	X1	O	System clock (4.19MHz).
35	X2	I	System clock (4.19MHz).
36	IC. MUTE	O	Mute drive output for NJM2279 (IC251).
37	$\overline{\text{PROLOGIC}}$	O	Plologic LED.
38	$\overline{\text{SIMULATED}}$	O	CINEMA STUDIO LED.
39	$\overline{\text{HALL}}$	O	HALL LED.
40	T. MUTE	O	Tuner mute drive output.

Pin No.	Pin Name	I/O	Description
41	VOLUME UP	O	Volume up.
42	VOLUME DOWN	O	Volume down.
43	NC	—	Not used. (Open)
44	$\overline{\text{SYS. POWER}}$	I	System power ON/OFF.
45	RDS. DATA. IN	I	RDS data input.
46	RDS. CLK. IN	I	RDS clock input.
47	$\overline{\text{STOP}}$	I	Stop signal input from NJM2103D (IC950).
48	Vss	—	Ground.
49	$\overline{\text{SIRCS}}$	I	Sircs signal input.
50	$\overline{\text{MUTING}}$	O	Muting LED drive.
51	5.1ch LED	O	5.1ch LED drive.
52	+5V	—	Power supply (+5V).
53	BASS BOOST	O	Bass boost LED drive.
54	FUNC. MUTE	O	Line mute drive.
55	SL MUTE	O	SL mute drive.
56	VERSION	I	Input for model select.
57	K14	I	Key in 4.
58	K13	I	Key in 3.
59	K12	I	Key in 2.
60	K11	I	Key in 1.
61	SR MUTE	O	SR mute drive.
62	S15	O	Key out 15.
63	S14	O	Key out 14.
64	S13	O	Key out 13.
65	S12	O	Key out 12.
66	S11	O	Key out 11. } Fluorescent indicator tube drive.
67	S10	O	Key out 10.
68	S9	O	Key out 9.
69	S8	O	Key out 8.
70	S7	O	Key out 7.
71	VLOAD	—	Connect to –24V.
72	S6	O	Key out 6.
73	S5	O	Key out 5.
74	S4	O	Key out 4.
75	S3	O	Key out 3. } Fluorescent indicator tube drive.
76	S2	O	Key out 2.
77	S1	O	Key out 1.
78	DIG10	O	Fluorescent indicator tube drive.
79	DIG9	O	
80	DIG8	O	

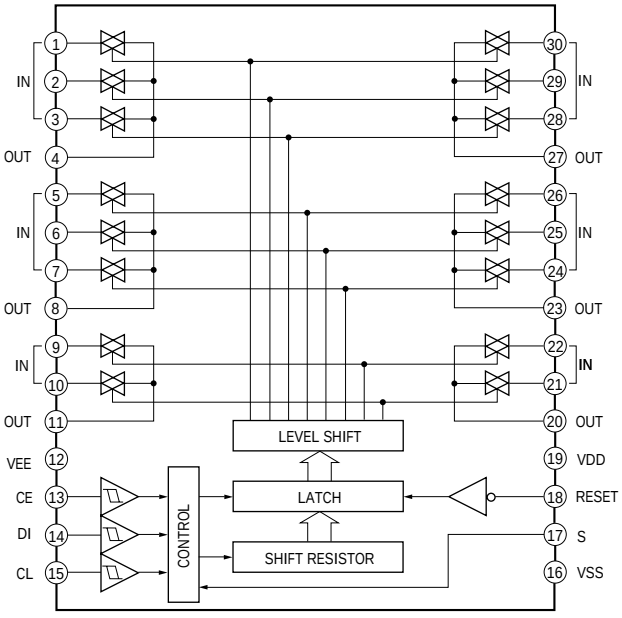
3-12. IC BLOCK DIAGRAMS

• IC BLOCK DIAGRAMS

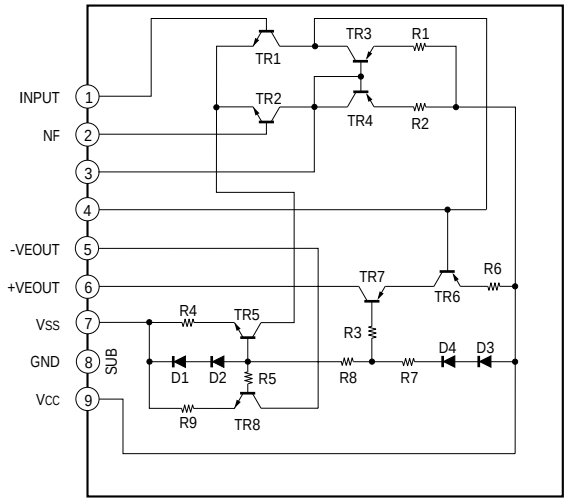
IC1 BU1922



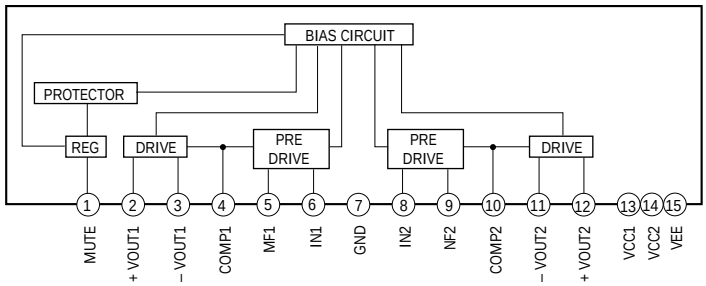
IC401, IC500 LC7822



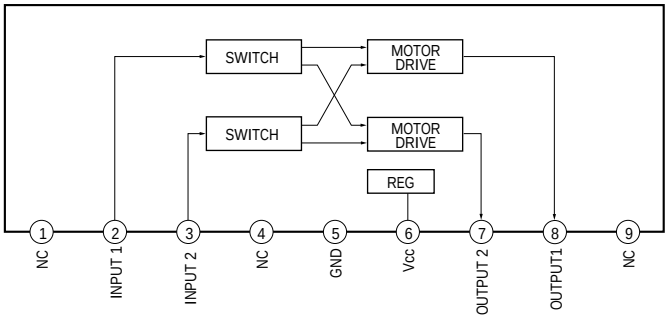
IC551 STK350-230



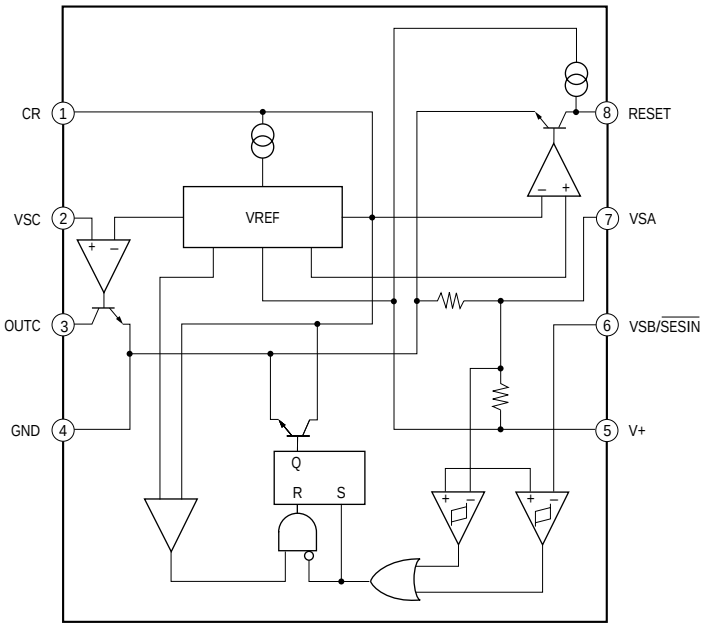
IC701 uPC2581V



IC202 BA6208



IC950 NJM2103D



SECTION 4
EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

CND	: Canadian	G	: German
EE	: East European	MY	: Malaysia
AUS	: Australian	SP	: Singapore
CH	: Chinese		

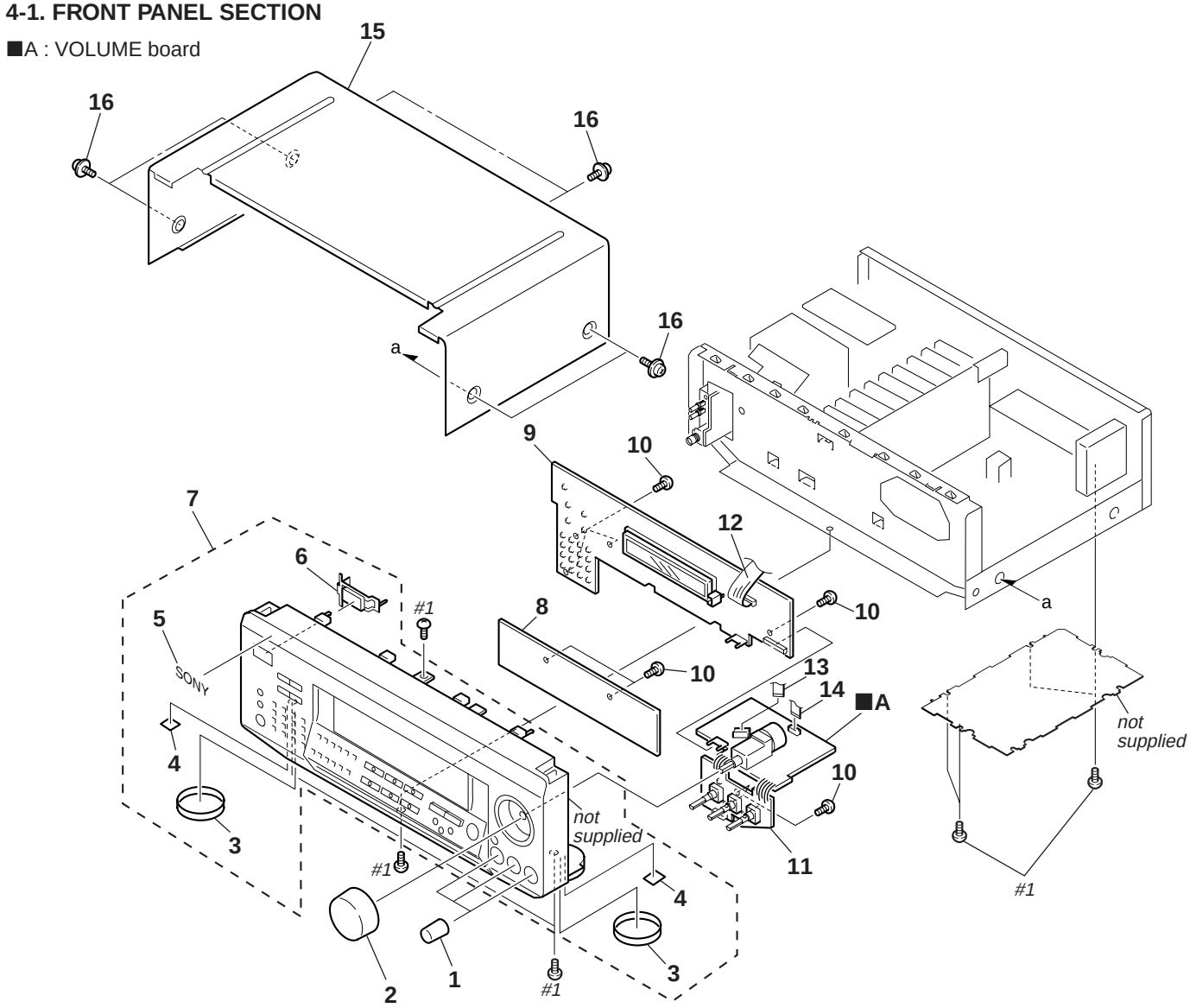
When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

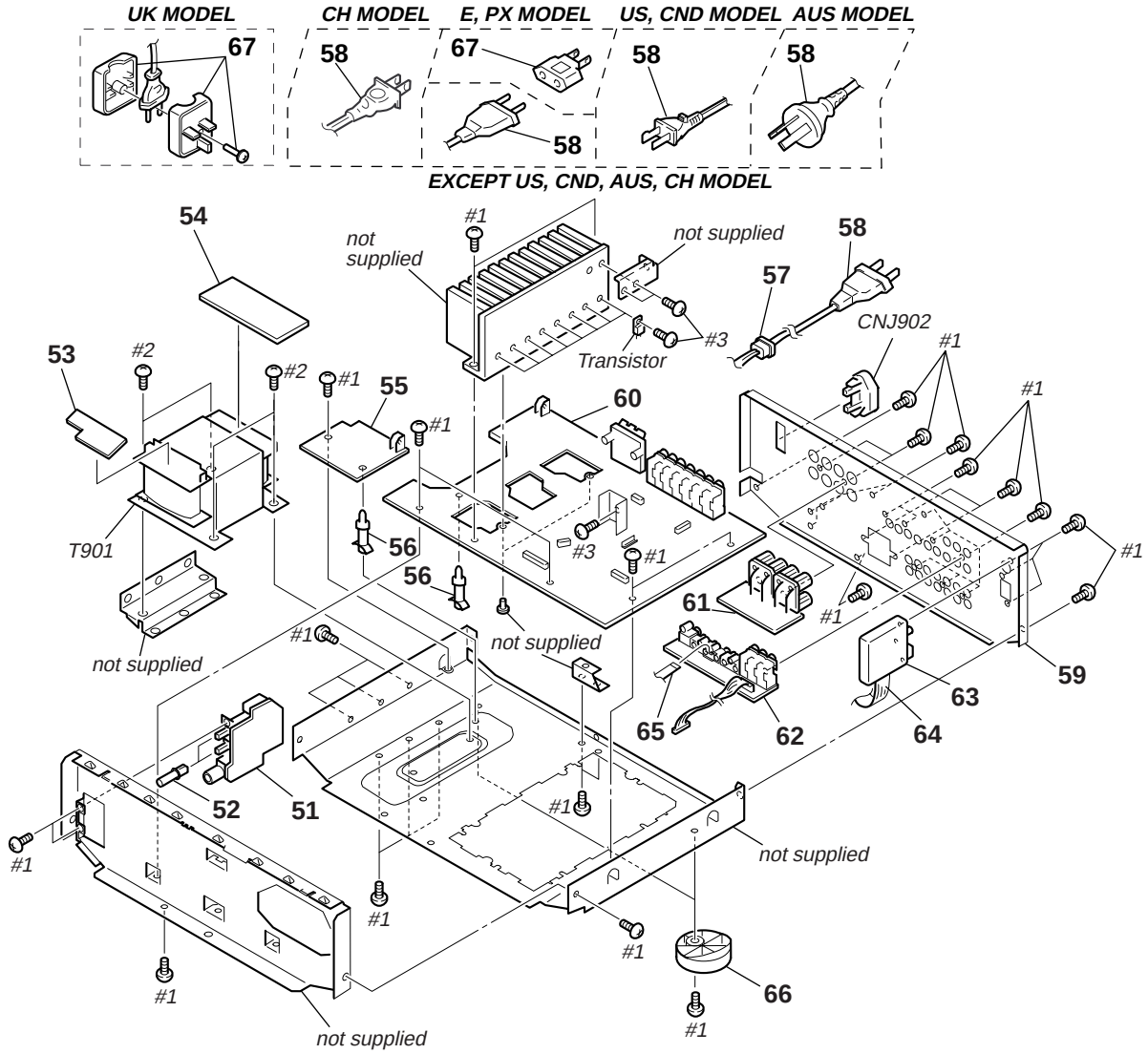
4-1. FRONT PANEL SECTION

■A : VOLUME board



Ref. No.	Part No.	Description	Remarks
1	4-998-717-01	KNOB (BAL)	
2	X-4949-627-1	KNOB (VOL) ASSY	
3	4-977-593-11	RING(DIA.50),ORNAMENTAL(EXCEPT US,CND)	
4	4-977-358-11	CUSHION (US,CND)	
5	4-996-698-01	EMBLEM, SONY	
6	4-998-189-01	BUTTON (P-T)	
7	X-4949-624-1	FRONT PANEL ASSY (US,CND)	
7	X-4949-676-1	FRONT PANEL ASSY (AUS)	
7	X-4949-677-1	FRONT PANEL ASSY (AEP,UK,G,EE)	
7	X-4949-683-1	FRONT PANEL ASSY (E,SP,MY,CH)	
* 8	1-669-276-11	10 KEY BOARD	
* 9	A-4407-449-A	DISPLAY BOARD, COMPLETE(US,CND)	
* 9	A-4407-531-A	DISPLAY BOARD, COMPLETE(AUS)	
* 9	A-4407-534-A	DISPLAY BOARD, COMPLETE(E,SP,MY,CH)	
* 9	A-4407-537-A	DISPLAY BOARD, COMPLETE(AEP,UK,G)	
* 9	A-4407-995-A	DISPLAY BOARD, COMPLETE(EE)	
10	4-951-620-01	SCREW (2.6X8), +BVTP	
* 11	A-4407-451-A	VR-TONE BOARD, COMPLETE (US,CND,AUS,E,SP,MY,CH)	
* 11	A-4407-539-A	VR-TONE BOARD, COMPLETE(AEP,UK,G,EE)	
12	1-782-086-11	WIRE (FLAT TYPE) (27 CORE)	
13	1-769-911-11	WIRE (FLAT TYPE) (9 CORE)	
14	1-769-972-11	WIRE (FLAT TYPE) (13 CORE)	
* 15	4-998-206-01	CASE (413226)	
16	3-710-901-11	SCREW (CASE) (M3X8)	

4-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remarks
* 51	1-669-282-11	SP-SW BOARD	
52	4-951-801-03	BUTTON (S)	
* 53	1-669-280-11	PRIMARY BOARD	
* 54	1-669-281-11	SECONDARY BOARD	
* 55	1-669-279-11	STAND BY BOARD	
* 56	4-954-051-51	HOLDER, PC BOARD	
* 57	3-703-244-00	BUSHING (2104), CORD	
⚠58	1-777-071-21	CORD, POWER (EXCEPT US,CND,AUS,CH)	
⚠58	1-696-847-21	CORD, POWER (AUS)	
⚠58	1-777-071-11	CORD, POWER (CH)	
⚠58	1-783-204-11	CORD, POWER (US,CND)	
* 59	4-998-205-01	BACK PANEL (E4)(US)	
* 59	4-998-205-11	BACK PANEL (E4)(CND)	
* 59	4-998-205-21	BACK PANEL (E4)(AUS)	
* 59	4-998-205-31	BACK PANEL (E4)(E,SP,MY)	
* 59	4-998-205-41	BACK PANEL (E4)(CH)	
* 59	4-998-205-61	BACK PANEL (E4)(EE)	
* 59	4-998-205-51	BACK PANEL (E4)(AEP,UK,G)	
* 60	A-4407-457-A	MAIN BOARD, COMPLETE (US)	
* 60	A-4407-530-A	MAIN BOARD, COMPLETE (CND)	
* 60	A-4407-533-A	MAIN BOARD, COMPLETE (AUS)	

Ref. No.	Part No.	Description	Remarks
* 60	A-4407-535-A	MAIN BOARD, COMPLETE (E,SP,MY,CH)	
* 60	A-4407-545-A	MAIN BOARD, COMPLETE(AEP,UK,G,EE)	
* 61	1-669-284-11	SP-SCREW BOARD (AEP,UK,G,EE,E,SP,MY,CH)	
* 62	1-669-283-11	VIDEO BOARD	
63	1-693-407-41	TUNER (US,CND)	
63	1-693-408-41	TUNER (AUS,AEP,UK,G,E,SP,MY,CH)	
63	1-693-411-41	TUNER (EE)	
64	1-782-080-11	WIRE (FLAT TYPE) (15 CORE)	
65	1-782-074-11	WIRE (FLAT TYPE) (7 CORE)	
66	X-4947-207-1	FOOT ASSY (F50150S)(EXCEPT US,CND)	
66	X-4947-208-1	FOOT ASSY (F50150S)(US,CND)	
67	1-569-008-21	ADAPTOR, CONVERSION 2P (E)	
67	1-770-019-11	ADAPTOR, CONVERSION 3P (UK)	
⚠CNJ902	1-251-416-11	OUTLET, AC (AUS)	
⚠CNJ902	1-526-794-11	OUTLET, AC (AEP,G,EE,E,SP,MY,CH)	
⚠T901	1-431-267-11	TRANSFORMER, POWER (US)	
⚠T901	1-431-268-11	TRANSFORMER, POWER (CND)	
⚠T901	1-431-270-11	TRANSFORMER, POWER (AUS)	
⚠T901	1-431-791-11	TRANSFORMER, POWER (AEP,UK,G,EE)	
⚠T901	1-431-792-11	TRANSFORMER, POWER (E,SP,MY,CH)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5
ELECTRICAL PARTS LIST

DISPLAY

NOTE:

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- CAPACITORS:
  uF: µF
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: µH
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...
- Abbreviation

CND	: Canadian	G	: German
EE	: East European	MY	: Malaysia
AUS	: Australian	SP	: Singapore
CH	: Chinese		

Ref. No.	Part No.	Description			Remarks
*	A-4407-449-A	DISPLAY BOARD, COMPLETE (US,CND)			
		**********			
*	A-4407-531-A	DISPLAY BOARD, COMPLETE (AUS)			
		**********			
*	A-4407-534-A	DISPLAY BOARD, COMPLETE (E,SP,MY,CH)			
		**********			
*	A-4407-537-A	DISPLAY BOARD, COMPLETE (AEP,UK,G)			
		**********			
*	A-4407-995-A	DISPLAY BOARD, COMPLETE (EE)			
		**********			
*	4-921-941-01	CUSHION (FL)			
*	4-943-107-11	HOLDER (FL TUBE)			
		< CAPACITOR >			
C201	1-104-905-11	CAPACITOR	0.22F		5.5V
C202	1-164-159-11	CERAMIC	0.1uF		50V
C203	1-124-465-00	ELECT	0.47uF	20%	50V
C204	1-164-159-11	CERAMIC	0.1uF		50V
C205	1-162-294-31	CERAMIC	0.001uF	10%	50V
C206	1-164-159-11	CERAMIC	0.1uF		50V
C207	1-126-096-11	ELECT	10uF	20%	35V
C208	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CNP205	1-779-366-11	CONNECTOR, BOARD TO BOARD 4P			
CNS201	1-569-327-11	SOCKET, CONNECTOR 27P			
CNS202	1-770-402-11	HOUSING, CONNECTOR(PC BOARD)9P			
		< DIODE >			
D201	8-719-911-19	DIODE 1SS119			
D202	8-719-911-19	DIODE 1SS119			
D203	8-719-911-19	DIODE 1SS119			
D204	8-719-911-19	DIODE 1SS119			
D211	8-719-911-19	DIODE 1SS119			
D212	8-719-911-19	DIODE 1SS119			
D213	8-719-991-33	DIODE 1SS133T-77 (AEP,UK,G,EE)			
D214	8-719-991-33	DIODE 1SS133T-77 (AEP,UK,G,EE)			
D215	8-719-911-19	DIODE 1SS119			
D216	8-719-911-19	DIODE 1SS119			
D217	8-719-911-19	DIODE 1SS119			
D218	8-719-911-19	DIODE 1SS119			
D221	8-719-911-19	DIODE 1SS119 (EE,E,SP,MY,CH)			
D222	8-719-911-19	DIODE 1SS119 (AUS,E,SP,MY,CH)			
D223	8-719-991-33	DIODE 1SS133T-77 (AUS,AEP,UK,G,EE)			
D224	8-719-911-19	DIODE 1SS119			
D231	8-719-911-19	DIODE 1SS119			
D234	8-719-046-39	DIODE SEL5821A-TH15 (5.1/DVD INPUT)			
D235	8-719-046-39	DIODE SEL5821A-TH15 (HALL)			
D236	8-719-046-39	DIODE SEL5821A-TH15 (C.STUDIO)			
D237	8-719-046-39	DIODE SEL5821A-TH15 (PROLOGIC)			
D239	8-719-046-39	DIODE SEL5821A-TH15 (BASS BOOST)			
		< FLUORESCENT >			
FL201	1-517-662-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC201	8-759-526-68	IC uPD78044FGF-112-3B9			
IC202	8-759-962-08	IC BA6208			
IC203	8-759-332-18	IC GP1U27XB			
		< COIL >			
L401	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q201	8-729-900-63	TRANSISTOR DTA124ES			
Q202	8-729-900-36	TRANSISTOR DTC124ES			
Q230	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q231	8-729-900-36	TRANSISTOR DTC124ES			
		< RESISTOR >			
R200	1-249-433-11	CARBON	22K	5%	1/4W
R201	1-247-903-00	CARBON	1M	5%	1/4W
R202	1-249-429-11	CARBON	10K	5%	1/4W
R203	1-249-429-11	CARBON	10K	5%	1/4W
R204	1-249-425-11	CARBON	4.7K	5%	1/4W F
R205	1-249-441-11	CARBON	100K	5%	1/4W
R206	1-249-433-11	CARBON	22K	5%	1/4W
R207	1-249-433-11	CARBON	22K	5%	1/4W
R211	1-249-433-11	CARBON	22K	5%	1/4W
R212	1-249-433-11	CARBON	22K	5%	1/4W
R216	1-249-433-11	CARBON	22K	5%	1/4W
R221	1-247-807-31	CARBON	100	5%	1/4W
R222	1-247-807-31	CARBON	100	5%	1/4W
R223	1-247-807-31	CARBON	100	5%	1/4W
R224	1-247-807-31	CARBON	100	5%	1/4W
R225	1-247-807-31	CARBON	100	5%	1/4W
R226	1-249-441-11	CARBON	100K	5%	1/4W
R227	1-249-441-11	CARBON	100K	5%	1/4W
R228	1-249-406-11	CARBON	120	5%	1/4W F
R230	1-249-406-11	CARBON	120	5%	1/4W F
R231	1-249-427-11	CARBON	6.8K	5%	1/4W F
R270	1-247-807-31	CARBON	100	5%	1/4W
R283	1-249-427-11	CARBON	6.8K	5%	1/4W F
R284	1-249-427-11	CARBON	6.8K	5%	1/4W F
R285	1-249-406-11	CARBON	120	5%	1/4W F

DISPLAY | MAIN

Ref. No.	Part No.	Description				Remarks
R286	1-249-437-11	CARBON	47K	5%	1/4W	
R287	1-249-425-11	CARBON	4.7K	5%	1/4W	F
RD01	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD02	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD03	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD04	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD05	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD06	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD07	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD08	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD09	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD10	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD11	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD12	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD13	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD14	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD15	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD16	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD17	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD18	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD19	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD20	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD21	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD22	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD23	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD24	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
RD25	1-249-439-11	CARBON	68K	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
		< SWITCH >				
S200	1-762-751-11	SWITCH,TACTILE (POWER)				
S201	1-762-751-11	SWITCH,TACTILE (CENTER LEVEL-)				
S202	1-762-751-11	SWITCH,TACTILE (CENTER LEVEL+)				
S203	1-762-751-11	SWITCH,TACTILE (REAR LEVEL-)				
S204	1-762-751-11	SWITCH,TACTILE (REAR LEVEL+)				
S205	1-762-751-11	SWITCH,TACTILE (PTY) (AEP,UK,G,EE)				
S206	1-762-751-11	SWITCH,TACTILE (EON) (AEP,UK,G,EE)				
S207	1-762-751-11	SWITCH,TACTILE (CHARACTER)(AEP,UK,G,EE)				
S208	1-762-751-11	SWITCH,TACTILE (DISPLAY) (AEP,UK,G,EE)				
S209	1-762-751-11	SWITCH,TACTILE (TUNING PTY SELECT-)				
S210	1-762-751-11	SWITCH,TACTILE (TUNING PTY SELECT+)				
S211	1-762-751-11	SWITCH,TACTILE (PRESET CHARACTER-)				
S212	1-762-751-11	SWITCH,TACTILE (PRESET CHARACTER+)				
S213	1-762-751-11	SWITCH,TACTILE (SLEEP)				
S214	1-762-751-11	SWITCH,TACTILE (FM MODE)				
S215	1-762-751-11	SWITCH,TACTILE (FM/AM)				
S216	1-762-751-11	SWITCH,TACTILE (MEMORY)				
		< VIBRATOR >				
X201	1-577-101-11	VIBRATOR, CERAMIC 4.19MHz				
**********						
*	A-4407-457-A	MAIN BOARD, COMPLETE (US)				
		**********				
*	A-4407-530-A	MAIN BOARD, COMPLETE (CND)				
		**********				
*	A-4407-533-A	MAIN BOARD, COMPLETE (AUS)				
		**********				
*	A-4407-535-A	MAIN BOARD, COMPLETE (E,SP,MY,CH)				
		**********				
*	A-4407-545-A	MAIN BOARD, COMPLETE (AEP,UK,G,EE)				
		**********				
	3-905-609-01	SCREW (TRANSISTOR)				
	4-812-134-00	RIVET (DIA. 3.5), NYLON				
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3				
	7-685-872-09	SCREW +BVTT 3X8 (S)				
		< CAPACITOR >				
C3	1-162-286-21	CERAMIC	220PF	10%	50V	(AEP,UK,G,EE)
C4	1-126-961-11	ELECT	2.2uF	20%	50V	(AEP,UK,G,EE)
C5	1-162-306-11	CERAMIC	0.01uF	20%	16V	(AEP,UK,G,EE)
C6	1-162-291-31	CERAMIC	560PF	10%	50V	(AEP,UK,G,EE)
C7	1-102-527-11	CERAMIC	82PF	5%	50V	(AEP,UK,G,EE)
C8	1-102-852-91	CERAMIC	47PF	5%	50V	(AEP,UK,G,EE)
C9	1-126-960-11	ELECT	1uF	20%	50V	(AEP,UK,G,EE)
C302	1-126-934-11	ELECT	220uF	20%	10V	
C303	1-130-494-11	MYLAR	0.082uF	5%	50V	
C304	1-137-367-11	FILM	0.0033uF	5%	50V	
C305	1-130-494-11	MYLAR	0.082uF	5%	50V	
C306	1-126-959-11	ELECT	0.47uF	20%	50V	
C307	1-126-964-11	ELECT	10uF	20%	50V	
C308	1-126-964-11	ELECT	10uF	20%	50V	
C309	1-162-291-31	CERAMIC	560PF	10%	50V	
C310	1-126-962-11	ELECT	3.3uF	20%	50V	
C311	1-126-961-11	ELECT	2.2uF	20%	50V	
C312	1-126-934-11	ELECT	220uF	20%	10V	
C313	1-126-934-11	ELECT	220uF	20%	10V	
C314	1-136-165-00	FILM	0.1uF	5%	50V	
C316	1-124-252-00	ELECT	0.33uF	20%	50V	

Ref. No.	Part No.	Description			Remarks
C317	1-164-159-11	CERAMIC	0.1uF		50V
C318	1-136-357-11	FILM	680PF	5%	50V
C322	1-126-962-11	ELECT	3.3uF	20%	50V
C323	1-136-173-00	FILM	0.47uF	5%	50V
C324	1-126-967-11	ELECT	47uF	20%	16V
C325	1-136-165-00	FILM	0.1uF	5%	50V
C326	1-136-165-00	FILM	0.1uF	5%	50V
C327	1-126-959-11	ELECT	0.47uF	20%	50V
C328	1-126-963-11	ELECT	4.7uF	20%	50V
C329	1-126-959-11	ELECT	0.47uF	20%	50V
C330	1-126-963-11	ELECT	4.7uF	20%	50V
C331	1-124-250-11	ELECT	0.15uF	20%	50V
C332	1-126-962-11	ELECT	3.3uF	20%	50V
C333	1-124-250-11	ELECT	0.15uF	20%	50V
C334	1-137-372-11	FILM	0.022uF	5%	50V
C335	1-136-161-00	FILM	0.047uF	5%	50V
C336	1-126-934-11	ELECT	220uF	20%	10V
C337	1-126-964-11	ELECT	10uF	20%	50V
C338	1-126-964-11	ELECT	10uF	20%	50V
C339	1-126-964-11	ELECT	10uF	20%	50V
C340	1-126-964-11	ELECT	10uF	20%	50V
C341	1-126-934-11	ELECT	220uF	20%	10V
C342	1-126-962-11	ELECT	3.3uF	20%	50V
C343	1-126-962-11	ELECT	3.3uF	20%	50V
C344	1-136-165-00	FILM	0.1uF	5%	50V
C345	1-136-165-00	FILM	0.1uF	5%	50V
C346	1-126-959-11	ELECT	0.47uF	20%	50V
C347	1-126-963-11	ELECT	4.7uF	20%	50V
C348	1-126-959-11	ELECT	0.47uF	20%	50V
C349	1-126-963-11	ELECT	4.7uF	20%	50V
C350	1-124-250-11	ELECT	0.15uF	20%	50V
C351	1-126-962-11	ELECT	3.3uF	20%	50V
C352	1-124-250-11	ELECT	0.15uF	20%	50V
C357	1-164-159-11	CERAMIC	0.1uF		50V
C359	1-126-963-11	ELECT	4.7uF	20%	50V
C360	1-126-963-11	ELECT	4.7uF	20%	50V
C370	1-164-159-11	CERAMIC	0.1uF		50V
C371	1-126-966-11	ELECT	33uF	20%	16V
C401	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,UK,G,EE)
C402	1-126-962-11	ELECT	3.3uF	20%	50V (AEP,UK,G,EE)
C403	1-126-966-11	ELECT	33uF	20%	16V (AEP,UK,G,EE)
C404	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,UK,G,EE)
C405	1-137-459-11	FILM	0.0056MF	5%	100V (AEP,UK,G,EE)
C406	1-164-159-11	CERAMIC	0.1uF		50V
C407	1-137-365-11	FILM	0.0015uF	5%	50V (AEP,UK,G,EE)
C408	1-162-294-31	CERAMIC	0.001uF	10%	50V
C409	1-126-962-11	ELECT	3.3uF	20%	50V (AEP,UK,G,EE)
C410	1-164-159-21	CERAMIC	0.1uF		50V (AEP,UK,G,EE)
C412	1-162-291-31	CERAMIC	560PF	10%	50V
C413	1-164-159-11	CERAMIC	0.1uF		50V
C415	1-164-159-11	CERAMIC	0.1uF		50V
C416	1-164-159-11	CERAMIC	0.1uF		50V
C425	1-126-795-11	ELECT	10uF	20%	25V

Ref. No.	Part No.	Description			Remarks
C426	1-126-795-11	ELECT	10uF	20%	25V
C427	1-162-207-31	CERAMIC	22PF	5%	50V
C428	1-124-252-00	ELECT	0.33uF	20%	50V
C429	1-130-489-00	MYLAR	0.033uF	5%	50V
C430	1-102-973-00	CERAMIC	100PF	5%	50V
C434	1-162-286-31	CERAMIC	220PF	10%	50V
C435	1-162-286-31	CERAMIC	220PF	10%	50V
C451	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,UK,G,EE)
C452	1-126-962-11	ELECT	3.3uF	20%	50V (AEP,UK,G,EE)
C453	1-126-966-11	ELECT	33uF	20%	16V (AEP,UK,G,EE)
C454	1-162-286-21	CERAMIC	220PF	10%	50V (AEP,UK,G,EE)
C455	1-137-459-11	FILM	0.0056MF	5%	100V (AEP,UK,G,EE)
C457	1-137-365-11	FILM	0.0015uF	5%	50V (AEP,UK,G,EE)
C459	1-126-962-11	ELECT	3.3uF	20%	50V (AEP,UK,G,EE)
C460	1-164-159-21	CERAMIC	0.1uF		50V (AEP,UK,G,EE)
C475	1-126-795-11	ELECT	10uF	20%	25V
C476	1-126-795-11	ELECT	10uF	20%	25V
C477	1-162-207-31	CERAMIC	22PF	5%	50V
C478	1-124-252-00	ELECT	0.33uF	20%	50V
C479	1-130-489-00	MYLAR	0.033uF	5%	50V
C480	1-102-973-00	CERAMIC	100PF	5%	50V
C492	1-124-464-11	ELECT	0.22uF	20%	50V
C500	1-164-159-11	CERAMIC	0.1uF		50V
C501	1-162-294-31	CERAMIC	0.001uF	10%	50V
C503	1-162-282-31	CERAMIC	100PF	10%	50V
C511	1-126-963-11	ELECT	4.7uF	20%	50V
C512	1-126-963-11	ELECT	4.7uF	20%	50V
C513	1-126-963-11	ELECT	4.7uF	20%	50V
C514	1-126-960-11	ELECT	1uF	20%	50V
C515	1-164-159-11	CERAMIC	0.1uF		50V
C516	1-126-963-11	ELECT	4.7uF	20%	50V
C517	1-162-193-31	CERAMIC	3.3PF	10%	50V
C552	1-162-282-31	CERAMIC	100PF	10%	50V
C553	1-126-933-11	ELECT	100uF	20%	10V
C554	1-102-937-00	CERAMIC	4.0PF	+-0.25PF	50V
C555	1-102-989-00	CERAMIC	68PF	5%	500V
C556	1-102-989-00	CERAMIC	68PF	5%	500V
C560	1-126-967-11	ELECT	47uF	20%	16V
C561	1-137-372-11	FILM	0.022uF	5%	50V
C567	1-162-193-31	CERAMIC	3.3PF	10%	50V
C570	1-162-286-31	CERAMIC	220PF	10%	50V
C601	1-162-282-31	CERAMIC	100PF	10%	50V
C602	1-162-282-31	CERAMIC	100PF	10%	50V
C604	1-104-665-11	ELECT	100uF	20%	16V
C605	1-162-294-31	CERAMIC	0.001uF	10%	50V
C610	1-137-372-11	FILM	0.022uF	5%	50V
C641	1-162-282-31	CERAMIC	100PF	10%	50V
C642	1-162-282-31	CERAMIC	100PF	10%	50V
C643	1-162-282-31	CERAMIC	100PF	10%	50V
C651	1-162-282-31	CERAMIC	100PF	10%	50V

MAIN

Ref. No.	Part No.	Description			Remarks
C652	1-162-282-31	CERAMIC	100PF	10%	50V
C654	1-104-665-11	ELECT	100uF	20%	16V
C660	1-137-372-11	FILM	0.022uF	5%	50V
C702	1-162-282-31	CERAMIC	100PF	10%	50V
C703	1-126-933-11	ELECT	100uF	20%	10V
C705	1-102-233-00	CERAMIC	33PF	10%	500V
C710	1-126-967-11	ELECT	47uF	20%	16V
C711	1-137-372-11	FILM	0.022uF	5%	50V
C720	1-162-286-31	CERAMIC	220PF	10%	50V
C721	1-126-934-11	ELECT	220uF	20%	10V
C722	1-126-964-11	ELECT	10uF	20%	50V
C740	1-128-560-11	ELECT	22uF	20%	100V
C741	1-128-560-11	ELECT	22uF	20%	100V
C742	1-126-925-11	ELECT	470uF	20%	10V
C752	1-162-282-31	CERAMIC	100PF	10%	50V
C753	1-126-933-11	ELECT	100uF	20%	10V
C755	1-102-233-00	CERAMIC	33PF	10%	500V
C760	1-126-967-11	ELECT	47uF	20%	16V
C761	1-137-372-11	FILM	0.022uF	5%	50V
C770	1-162-286-31	CERAMIC	220PF	10%	50V
C799	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-104-664-11	ELECT	47uF	20%	25V
C802	1-104-664-11	ELECT	47uF	20%	25V
C803	1-117-203-11	ELECT(BLOCK)	10000uF	20%	63V (US)
C803	1-107-766-11	ELECT(BLOCK)	8200uF	20%	71V (EXCEPT US)
C804	1-117-203-11	ELECT(BLOCK)	10000uF	20%	63V (US)
C804	1-107-766-11	ELECT(BLOCK)	8200uF	20%	71V (EXCEPT US)
C805	1-115-694-21	MYLAR	0.22uF	5%	100V (EXCEPT US,CND)
C805	1-137-420-11	FILM	0.047uF	10%	100V (US,CND)
C806	1-115-694-21	MYLAR	0.22uF	5%	100V (EXCEPT US,CND)
C806	1-137-420-11	FILM	0.047uF	10%	100V (US,CND)
C807	1-104-664-11	ELECT	47uF	20%	25V
C808	1-104-664-11	ELECT	47uF	20%	25V
C809	1-126-960-11	ELECT	1uF	20%	50V
C810	1-126-960-11	ELECT	1uF	20%	50V
C811	1-128-550-11	ELECT	2200uF	20%	50V
C812	1-128-550-11	ELECT	2200uF	20%	50V
C813	1-101-001-00	CERAMIC	0.001uF		50V
C814	1-101-001-00	CERAMIC	0.001uF		50V
C820	1-161-494-00	CERAMIC	0.022uF		25V
C821	1-161-494-00	CERAMIC	0.022uF		25V
C822	1-104-664-11	ELECT	47uF	20%	25V
C823	1-104-664-11	ELECT	47uF	20%	25V
C950	1-126-767-11	ELECT	1000uF	20%	16V
C951	1-164-097-11	CERAMIC	0.022uF		50V
C952	1-126-960-11	ELECT	1uF	20%	50V
C953	1-124-464-11	ELECT	0.22uF	20%	50V
C954	1-126-795-11	ELECT	10uF	20%	50V
C955	1-164-159-11	CERAMIC	0.1uF		50V
CC01	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC02	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC03	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC04	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC05	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC06	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC07	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC51	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC52	1-162-282-31	CERAMIC	100PF	10%50V	(AEP,UK,G,EE)
CC53	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC54	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC55	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC56	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)
CC57	1-162-282-31	CERAMIC	100PF	10%	50V (AEP,UK,G,EE)

< CONNECTOR >

CNP501	1-691-768-11	PLUG (MICRO CONNECTOR) 6P
CNP702	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P
CNS204	1-569-327-11	SOCKET, CONNECTOR 27P
CNS251	1-568-439-11	SOCKET, CONNECTOR 7P
CNS401	1-569-321-11	SOCKET, CONNECTOR 15P
CNS501	1-568-443-11	SOCKET, CONNECTOR 13P
CNS701	1-568-442-11	SOCKET, CONNECTOR 9P
CNS802	1-770-480-11	SOCKET, CONNECTOR PIN 4P

< DIODE >

D310	8-719-911-19	DIODE 1SS119
D311	8-719-911-19	DIODE 1SS119
D312	8-719-911-19	DIODE 1SS119
D421	8-719-911-19	DIODE 1SS119
D560	8-719-911-19	DIODE 1SS119
D610	8-719-911-19	DIODE 1SS119
D710	8-719-911-19	DIODE 1SS119
D721	8-719-911-19	DIODE 1SS119
D722	8-719-911-19	DIODE 1SS119
D723	8-719-911-19	DIODE 1SS119
D724	8-719-911-19	DIODE 1SS119
D725	8-719-911-19	DIODE 1SS119
D726	8-719-911-19	DIODE 1SS119
D727	8-719-911-19	DIODE 1SS119
D728	8-719-911-19	DIODE 1SS119
D801	8-719-986-54	DIODE HZS24-1LTA
D802	8-719-302-38	DIODE RBV-602-01
D803	8-719-028-23	DIODE D3SBA20-4101
D804	8-719-109-85	DIODE RD5.1ES-B2
D810	8-719-200-82	DIODE 11ES2
D811	8-719-200-82	DIODE 11ES2
D812	8-719-200-82	DIODE 11ES2
D813	8-719-200-82	DIODE 11ES2
D814	8-719-911-19	DIODE 1SS119
D815	8-719-911-19	DIODE 1SS119

Ref. No.	Part No.	Description	Remarks
D817	8-719-933-61	DIODE HZS9C3LTD	
D818	8-719-911-19	DIODE 1SS119	
D901	8-719-911-19	DIODE 1SS119	
		< EARTH >	
* G200	1-537-738-21	TERMINAL, EARTH	
* G201	1-537-738-21	TERMINAL, EARTH	
* G202	1-537-738-21	TERMINAL, EARTH	
* G203	1-537-738-21	TERMINAL, EARTH	
		< IC >	
IC1	8-759-450-86	IC BU1922 (AEP,UK,G,EE)	
IC300	8-759-527-00	IC LV1035M	
IC302	8-759-636-74	IC M5218AP-22	
IC401	8-759-805-14	IC LC7822	
IC402	8-759-636-74	IC M5218AP-22 (AEP,UK,G,EE)	
IC404	8-759-636-74	IC M5218AP-22	
IC500	8-759-805-14	IC LC7822	
IC501	8-759-636-74	IC M5218AP-22	
IC502	8-759-636-74	IC M5218AP-22	
IC551	8-749-011-16	IC STK350-230	
IC601	8-759-085-89	IC LM3875-S	
IC651	8-759-085-89	IC LM3875-S	
IC701	8-759-326-52	IC uPC2581V	
IC801	8-759-604-40	IC M5F78M15	
IC802	8-759-604-46	IC M5F79M15	
IC950	8-759-333-83	IC NJM2103D	
		< JACK >	
J401	1-770-614-11	JACK,PIN4P(PHONO/CD) (AEP,UK,G,EE)	
J402	1-580-825-11	JACK,PIN6P(TAPE MD/TV/LD)	
J403	1-770-613-11	JACK,PIN4P(VIDEO)(AEP,UK,G,EE)	
J403	1-580-825-11	JACK,PIN6P(VIDEO)(US,CND,AUS,E,SP,MY,CH)	
		< COIL >	
L1	1-410-521-11	INDUCTOR 100uH (AEP,UK,G,EE)	
L301	1-410-509-11	INDUCTOR 10uH	
L551	1-420-872-00	COIL, AIR-CORE	
L601	1-420-872-00	COIL, AIR-CORE	
L651	1-420-872-00	COIL, AIR-CORE	
L701	1-420-872-00	COIL, AIR-CORE	
L751	1-420-872-00	COIL, AIR-CORE	
		< IC LINK >	
⚠ PS800	1-533-588-31	LINK, IC (AEP,UK,G,EE,E,SP,MY,CH)	
		< TRANSISTOR >	
Q367	8-729-119-78	TRANSISTOR 2SC403SP	
Q401	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q451	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q452	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q551	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q552	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q553	8-749-010-25	IC MN2488-OPY-M	
Q554	8-749-010-26	IC MP1620-OPY-M	
Q560	8-729-119-78	TRANSISTOR 2SC403SP-51	

Ref. No.	Part No.	Description	Remarks
Q570	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q610	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q701	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q702	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q703	8-749-010-25	IC MN2488-OPY-M	
Q704	8-749-010-26	IC MP1620-OPY-M	
Q710	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q720	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q721	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q722	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
Q723	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q751	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q752	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q753	8-749-010-25	IC MN2488-OPY-M	
Q754	8-749-010-26	IC MP1620-OPY-M	
Q770	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
Q801	8-729-140-97	TRANSISTOR 2SB734-34	
Q802	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q808	8-729-209-15	TRANSISTOR 2SD2012	
Q809	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q951	8-729-209-15	TRANSISTOR 2SD2012	
		< RESISTOR >	
R5	1-249-421-11	CARBON 2.2K 5% 1/4W F (AEP,UK,G,EE)	
R6	1-247-807-31	CARBON 100 5% 1/4W (AEP,UK,G,EE)	
R7	1-247-807-31	CARBON 100 5% 1/4W (AEP,UK,G,EE)	
R300	1-247-903-00	CARBON 1M 5% 1/4W	
R303	1-249-439-11	CARBON 68K 5% 1/4W	
R304	1-249-411-11	CARBON 330 5% 1/4W	
R306	1-249-436-11	CARBON 39K 5% 1/4W	
R307	1-247-862-11	CARBON 20K 5% 1/4W	
R308	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R309	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R357	1-249-441-11	CARBON 100K 5% 1/4W	
R358	1-249-441-11	CARBON 100K 5% 1/4W	
R359	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R360	1-249-425-11	CARBON 4.7K 5% 1/4W F	
R374	1-249-429-11	CARBON 10K 5% 1/4W	
R375	1-249-429-11	CARBON 10K 5% 1/4W	
R397	1-249-419-11	CARBON 1.5K 5% 1/4W F	
R399	1-249-426-11	CARBON 5.6K 5% 1/4W	
R401	1-249-411-11	CARBON 330 5% 1/4W (AEP,UK,G,EE)	
R402	1-249-421-11	CARBON 2.2K 5% 1/4W F	
R403	1-249-417-11	CARBON 1K 5% 1/4W F	
R404	1-249-417-11	CARBON 1K 5% 1/4W F	
R405	1-249-417-11	CARBON 1K 5% 1/4W F	
R406	1-249-417-11	CARBON 1K 5% 1/4W F	
R407	1-249-417-11	CARBON 1K 5% 1/4W F	
R408	1-249-429-11	CARBON 10K 5% 1/4W	
R409	1-249-437-11	CARBON 47K 5% 1/4W (AEP,UK,G,EE)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN

Ref. No.	Part No.	Description			Remarks
R410	1-247-897-11	CARBON	560K	5% 1/4W	(AEP,UK,G,EE)
R411	1-249-416-11	CARBON	820	5% 1/4W	F (AEP,UK,G,EE)
R412	1-247-897-11	CARBON	560K	5% 1/4W	(AEP,UK,G,EE)
R413	1-249-437-11	CARBON	47K	5% 1/4W	(AEP,UK,G,EE)
R414	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R415	1-249-417-11	CARBON	1K	5% 1/4W	F
R416	1-249-417-11	CARBON	1K	5% 1/4W	F (AEP,UK,G,EE)
R417	1-247-897-11	CARBON	560K	5% 1/4W	(AEP,UK,G,EE)
R420	1-249-441-11	CARBON	100K	5% 1/4W	
R426	1-249-429-11	CARBON	10K	5% 1/4W	
R427	1-249-439-11	CARBON	68K	5% 1/4W	
R428	1-249-417-11	CARBON	1K	5% 1/4W	F
R430	1-249-437-11	CARBON	47K	5% 1/4W	
R431	1-247-843-11	CARBON	3.3K	5% 1/4W	
R432	1-247-883-00	CARBON	150K	5% 1/4W	
R433	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R434	1-249-413-11	CARBON	470	5% 1/4W	F
R435	1-249-418-11	CARBON	1.2K	5% 1/4W	F
R438	1-249-441-11	CARBON	100K	5% 1/4W	
R441	1-249-441-11	CARBON	100K	5% 1/4W	
R442	1-249-418-11	CARBON	1.2K	5% 1/4W	F
R443	1-249-418-11	CARBON	1.2K	5% 1/4W	F
R444	1-247-903-00	CARBON	1M	5% 1/4W	
R447	1-249-416-11	CARBON	820	5% 1/4W	F
R448	1-249-429-11	CARBON	10K	5% 1/4W	
R449	1-249-433-11	CARBON	22K	5% 1/4W	
R450	1-249-400-11	CARBON	39	5% 1/4W	F
R451	1-249-411-11	CARBON	330	5% 1/4W	(AEP,UK,G,EE)
R452	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R453	1-249-417-11	CARBON	1K	5% 1/4W	F
R454	1-249-417-11	CARBON	1K	5% 1/4W	F
R455	1-249-417-11	CARBON	1K	5% 1/4W	F
R456	1-249-417-11	CARBON	1K	5% 1/4W	F
R457	1-249-417-11	CARBON	1K	5% 1/4W	F
R458	1-249-429-11	CARBON	10K	5% 1/4W	
R459	1-249-437-11	CARBON	47K	5% 1/4W	(AEP,UK,G,EE)
R460	1-247-897-11	CARBON	560K	5% 1/4W	(AEP,UK,G,EE)
R461	1-249-416-11	CARBON	820	5% 1/4W	F (AEP,UK,G,EE)
R462	1-247-897-11	CARBON	560K	5% 1/4W	(AEP,UK,G,EE)
R463	1-249-437-11	CARBON	47K	5% 1/4W	(AEP,UK,G,EE)
R464	1-247-903-00	CARBON	1M	5% 1/4W	
R465	1-249-417-11	CARBON	1K	5% 1/4W	F
R466	1-249-417-11	CARBON	1K	5% 1/4W	F (AEP,UK,G,EE)
R467	1-247-897-11	CARBON	560K	5% 1/4W	(AEP,UK,G,EE)
R469	1-247-903-00	CARBON	1M	5% 1/4W	
R470	1-249-441-11	CARBON	100K	5% 1/4W	
R476	1-249-429-11	CARBON	10K	5% 1/4W	
R477	1-249-439-11	CARBON	68K	5% 1/4W	

Ref. No.	Part No.	Description			Remarks
R478	1-249-417-11	CARBON	1K	5% 1/4W	F
R480	1-249-437-11	CARBON	47K	5% 1/4W	
R481	1-247-843-11	CARBON	3.3K	5% 1/4W	
R482	1-247-883-00	CARBON	150K	5% 1/4W	
R483	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R484	1-249-413-11	CARBON	470	5% 1/4W	F
R491	1-249-441-11	CARBON	100K	5% 1/4W	
R492	1-247-903-00	CARBON	1M	5% 1/4W	
R494	1-247-903-00	CARBON	1M	5% 1/4W	
R501	1-247-843-11	CARBON	3.3K	5% 1/4W	
R502	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R503	1-249-429-11	CARBON	10K	5% 1/4W	
R504	1-249-425-11	CARBON	4.7K	5% 1/4W	F
R505	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R508	1-249-426-11	CARBON	5.6K	5% 1/4W	
R512	1-249-441-11	CARBON	100K	5% 1/4W	
R513	1-249-429-11	CARBON	10K	5% 1/4W	
R514	1-249-429-11	CARBON	10K	5% 1/4W	
R515	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R516	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R517	1-249-429-11	CARBON	10K	5% 1/4W	
R518	1-249-429-11	CARBON	10K	5% 1/4W	
R519	1-249-429-11	CARBON	10K	5% 1/4W	
R520	1-249-417-11	CARBON	1K	5% 1/4W	F
R551	1-249-417-11	CARBON	1K	5% 1/4W	F
R552	1-249-438-11	CARBON	56K	5% 1/4W	
R553	1-249-414-11	CARBON	560	5% 1/4W	F (AEP,UK,G,EE)
R553	1-249-411-11	CARBON	330	5% 1/4W	(US,CND,AUS,E,SP,MY,CH)
R554	1-249-438-11	CARBON	56K	5% 1/4W	
R555	1-249-413-11	CARBON	470	5% 1/4W	F
R560	1-249-421-11	CARBON	2.2K	5% 1/4W	F
R561	1-249-440-11	CARBON	82K	5% 1/4W	
R562	1-249-431-11	CARBON	15K	5% 1/4W	
R563	1-249-414-11	CARBON	560	5% 1/4W	F
⚠R564	1-249-409-11	CARBON	220	5% 1/4W	F (AEP,UK,G,EE)
⚠R564	1-249-408-11	CARBON	180	5% 1/4W	F (US,CND,AUS,E,SP,MY,CH)
⚠R565	1-249-409-11	CARBON	220	5% 1/4W	F (AEP,UK,G,EE)
⚠R565	1-249-408-11	CARBON	180	5% 1/4W	F (US,CND,AUS,E,SP,MY,CH)
⚠R566	1-233-352-21	ENCAPSULATED COMPONENT			
⚠R567	1-249-393-11	CARBON	10	5% 1/4W	F
R568	1-249-389-11	CARBON	4.7	5% 1/4W	F
⚠R569	1-249-413-11	CARBON	470	5% 1/4W	F
R570	1-249-419-11	CARBON	1.5K	5% 1/4W	F
R571	1-249-427-11	CARBON	6.8K	5% 1/4W	F
R573	1-249-437-11	CARBON	47K	5% 1/4W	
R580	1-249-426-11	CARBON	5.6K	5% 1/4W	
R581	1-247-887-00	CARBON	220K	5% 1/4W	
R582	1-249-426-11	CARBON	5.6K	5% 1/4W	
R601	1-249-417-11	CARBON	1K	5% 1/4W	F
R602	1-249-438-11	CARBON	56K	5% 1/4W	
R603	1-249-438-11	CARBON	56K	5% 1/4W	
R604	1-249-414-11	CARBON	560	5% 1/4W	F (AEP,UK,G,EE)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remarks
R604	1-249-411-11	CARBON	330	5%	1/4W (US,CND,AUS,E,SP,MY,CH)
⚠R610	1-249-393-11	CARBON	10	5%	1/4W F
R611	1-249-389-11	CARBON	4.7	5%	1/4W F
R612	1-249-437-11	CARBON	47K	5%	1/4W
⚠R619	1-249-413-11	CARBON	470	5%	1/4W F
R630	1-249-426-11	CARBON	5.6K	5%	1/4W
R632	1-249-426-11	CARBON	5.6K	5%	1/4W
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-438-11	CARBON	56K	5%	1/4W
R653	1-249-438-11	CARBON	56K	5%	1/4W
R654	1-249-414-11	CARBON	560	5%	1/4W F (AEP,UK,G,EE)
R654	1-249-411-11	CARBON	330	5%	1/4W (US,CND,AUS,E,SP,MY,CH)
⚠R660	1-249-393-11	CARBON	10	5%	1/4W F
R661	1-249-389-11	CARBON	4.7	5%	1/4W F
R662	1-249-437-11	CARBON	47K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-415-11	CARBON	680	5%	1/4W F (AEP,UK,G,EE)
R703	1-249-412-11	CARBON	390	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
R704	1-249-439-11	CARBON	68K	5%	1/4W
R710	1-249-421-11	CARBON	2.2K	5%	1/4W F
R711	1-249-440-11	CARBON	82K	5%	1/4W
R713	1-249-414-11	CARBON	560	5%	1/4W F
⚠R714	1-249-409-11	CARBON	220	5%	1/4W F (AEP,UK,G,EE)
⚠R714	1-249-408-11	CARBON	180	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
⚠R715	1-249-409-11	CARBON	220	5%	1/4W F (AEP,UK,G,EE)
⚠R715	1-249-408-11	CARBON	180	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
⚠R716	1-233-352-21	ENCAPSULATED COMPONENT			
⚠R717	1-249-393-11	CARBON	10	5%	1/4W F
R718	1-249-389-11	CARBON	4.7	5%	1/4W F
⚠R719	1-249-413-11	CARBON	470	5%	1/4W F
R720	1-249-419-11	CARBON	1.5K	5%	1/4W F
R721	1-249-427-11	CARBON	6.8K	5%	1/4W F
R722	1-249-431-11	CARBON	15K	5%	1/4W
R723	1-249-437-11	CARBON	47K	5%	1/4W
R724	1-249-425-11	CARBON	4.7K	5%	1/4W F
R725	1-249-427-11	CARBON	6.8K	5%	1/4W F
R726	1-249-417-11	CARBON	1K	5%	1/4W F
R727	1-249-427-11	CARBON	6.8K	5%	1/4W F
R730	1-249-429-11	CARBON	10K	5%	1/4W
R731	1-247-887-00	CARBON	220K	5%	1/4W
R734	1-249-429-11	CARBON	10K	5%	1/4W
⚠R740	1-249-393-11	CARBON	10	5%	1/4W F
⚠R741	1-249-393-11	CARBON	10	5%	1/4W F
R742	1-249-427-11	CARBON	6.8K	5%	1/4W F
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-415-11	CARBON	680	5%	1/4W F (AEP,UK,G,EE)
R753	1-249-412-11	CARBON	390	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
R754	1-249-439-11	CARBON	68K	5%	1/4W
R760	1-249-421-11	CARBON	2.2K	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R761	1-249-440-11	CARBON	82K	5%	1/4W
R763	1-249-414-11	CARBON	560	5%	1/4W F
⚠R764	1-249-409-11	CARBON	220	5%	1/4W F (AEP,UK,G,EE)
⚠R764	1-249-408-11	CARBON	180	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
⚠R765	1-249-409-11	CARBON	220	5%	1/4W F (AEP,UK,G,EE)
⚠R765	1-249-408-11	CARBON	180	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
⚠R766	1-233-352-21	ENCAPSULATED COMPONENT			
⚠R767	1-249-393-11	CARBON	10	5%	1/4W F
R768	1-249-389-11	CARBON	4.7	5%	1/4W F
R770	1-249-419-11	CARBON	1.5K	5%	1/4W F
R771	1-249-427-11	CARBON	6.8K	5%	1/4W F
R772	1-249-431-11	CARBON	15K	5%	1/4W
R773	1-249-437-11	CARBON	47K	5%	1/4W
R781	1-247-887-00	CARBON	220K	5%	1/4W
⚠R801	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R802	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R803	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R804	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R805	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R806	1-215-883-11	METAL OXIDE	33	5%	2W F
⚠R807	1-249-405-11	CARBON	100	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
⚠R808	1-249-405-11	CARBON	100	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
⚠R809	1-249-405-11	CARBON	100	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
⚠R815	1-249-389-11	CARBON	4.7	5%	1/4W F (EXCEPT US,CND)
⚠R815	1-247-739-11	CARBON	100	5%	1/2W F (US,CND)
R816	1-249-425-11	CARBON	4.7K	5%	1/4W F (AEP,UK,G,EE)
R816	1-249-427-11	CARBON	6.8K	5%	1/4W F (US,CND,AUS,E,SP,MY,CH)
R821	1-249-437-11	CARBON	47K	5%	1/4W
R822	1-249-425-11	CARBON	4.7K	5%	1/4W F
R823	1-249-437-11	CARBON	47K	5%	1/4W
R824	1-249-425-11	CARBON	4.7K	5%	1/4W F
R825	1-249-417-11	CARBON	1K	5%	1/4W F
⚠R830	1-249-413-11	CARBON	470	5%	1/4W F (EXCEPT CND)
⚠R830	1-249-411-11	CARBON	330	5%	1/4W (CND)
R950	1-249-421-11	CARBON	2.2K	5%	1/4W F
R951	1-249-428-11	CARBON	8.2K	5%	1/4W F
R952	1-249-422-11	CARBON	2.7K	5%	1/4W F
R953	1-249-433-11	CARBON	22K	5%	1/4W
R954	1-249-439-11	CARBON	68K	5%	1/4W
R955	1-249-429-11	CARBON	10K	5%	1/4W
R956	1-247-843-11	CARBON	3.3K	5%	1/4W
R957	1-249-417-11	CARBON	1K	5%	1/4W F
R958	1-249-401-11	CARBON	47	5%	1/4W F
R960	1-249-431-11	CARBON	15K	5%	1/4W

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MAIN **PRIMARY** **SECONDARY** **SP-SCREW** **SP-SW** **STAND BY**

Ref. No.	Part No.	Description				Remarks
⚠RF800	1-212-887-00	FUSIBLE	180	5%	1/4W	F (AEP,UK,G,EE,E,SP,MY,CH)
RR01	1-249-418-11	CARBON	1.2K	5%	1/4W	F (AEP,UK,G,EE)
RR51	1-249-418-11	CARBON	1.2K	5%	1/4W	F (AEP,UK,G,EE)
		< RELAY >				
RY301	1-515-793-11	RELAY				
RY551	1-515-920-11	RELAY (24V)				
RY601	1-515-920-11	RELAY (24V)				
RY701	1-515-920-11	RELAY (24V)				
RY801	1-755-206-11	RELAY (EXCEPT CND)				
RY851	1-515-918-11	RELAY (CND)				
RY852	1-515-918-11	RELAY (CND)				
		< TERMINAL >				
TM601	1-537-510-11	TERMINAL BOARD (6P)(SURROUND SPEAKER)				
TM701	1-537-376-11	TERMINAL BOARD (FRONT SPEAKER) (US,CND,AUS)				
		< VIBRATOR >				
X1	1-579-900-21	VIBRATOR, CRYSTAL 4.332MHz (AEP,UK,G,EE)				
X301	1-579-952-11	VIBRATOR, CERAMIC 8MHz				
**********						
*	1-669-280-11	PRIMARY BOARD **********				
	1-533-233-21	HOLDER, FUSE				
		< FUSE >				
⚠F901	1-532-464-51	FUSE TIME LAG 2.5A/250V (EXCEPT US,CND)				
⚠F901	1-533-310-11	FUSE,GLASS TUBE6.3A/125V (US,CND)				
**********						
*	1-669-281-11	SECONDARY BOARD **********				
	1-533-233-21	HOLDER, FUSE				
		< CONNECTOR >				
CNP801	1-764-479-11	PIN, CONNECTOR (PC BOARD) 10P				
		< FUSE >				
⚠F801	1-532-504-51	FUSE TIME LAG 4A/250V(EXCEPT US,CND)				
⚠F801	1-576-108-11	FUSE 4A/125V(US,CND)				
⚠F802	1-532-504-51	FUSE TIME LAG 4A/250V(EXCEPT US,CND)				
⚠F802	1-576-108-11	FUSE 4A/125V(US,CND)				
**********						
*	1-669-284-11	SP-SCREW BOARD (AEP,UK,G,EE,E,SP,MY,CH) **********				
		< CAPACITOR >				
CC12	1-164-096-11	CERAMIC	0.01uF		50V	
CC13	1-164-096-11	CERAMIC	0.01uF		50V	
CC62	1-164-096-11	CERAMIC	0.01uF		50V	
CC63	1-164-096-11	CERAMIC	0.01uF		50V	
		< CONNECTOR >				
CNS707	1-564-505-11	PLUG, CONNECTOR 2P				

Ref. No.	Part No.	Description				Remarks
		< RESISTOR >				
RR04	1-249-393-11	CARBON	10	5%	1/4W	F
RR05	1-249-393-11	CARBON	10	5%	1/4W	F
RR54	1-249-393-11	CARBON	10	5%	1/4W	F
RR55	1-249-393-11	CARBON	10	5%	1/4W	F
		< TERMINAL >				
TMS701	1-537-740-11	TERMINAL BOARD (FRONT SPEAKERS)				
**********						
*	1-669-282-11	SP-SW BOARD **********				
		< CONNECTOR >				
CNP703	1-764-474-11	PIN, CONNECTOR (PC BOARD) 5P				
CNP704	1-764-473-11	PIN, CONNECTOR (PC BOARD) 3P				
		< JACK >				
J741	1-750-733-11	JACK (LARGE TYPE)(PHONES)				
		< RESISTOR >				
R741	1-247-753-11	CARBON	1.2K	5%	1/2W	
R742	1-247-753-11	CARBON	1.2K	5%	1/2W	
R791	1-247-753-11	CARBON	1.2K	5%	1/2W	
R792	1-247-753-11	CARBON	1.2K	5%	1/2W	
		< SWITCH >				
S701	1-762-319-11	SWITCH, PUSH (2 KEY)(SPEAKER A/B)				
**********						
*	1-669-279-11	STAND BY BOARD **********				
	1-533-233-21	HOLDER, FUSE				
		< JACK >				
⚠CNJ902	1-251-691-11	OUTLET (AC) (US,CND)				
		< CONNECTOR >				
CNP802	1-779-495-11	PLUG, CONNECTOR PIN 4P				
CNP901	1-564-321-00	PIN, CONNECTOR 2P				
CNP903	1-580-230-11	PIN,CONNECTOR(PC BOARD)2P (EXCEPT US,CND)				
		< DIODE >				
D816	8-719-911-19	DIODE 1SS119				
		< FUSE >				
⚠F902	1-532-464-51	FUSE TIME LAG 2.5A/250V(EXCEPT US,CND)				
		< TERMINAL >				
* G900	1-537-738-21	TERMINAL, EARTH (US,CND,AUS,E,SP,MY,CH)				
		< RESISTOR >				
⚠R901	1-202-725-00	SOLID	3.3M	10%	1/2W	(US,CND)

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Ref. No.	Part No.	Description				Remarks
		< RELAY >				
⚠RY901	1-755-018-11	RELAY				
		< TRANSFORMER >				
⚠T902	1-431-740-11	TRANSFORMER, POWER (US,CND)				
⚠T902	1-431-739-11	TRANSFORMER, POWER (EXCEPT US,CND)				
**********						
*	1-669-283-11	VIDEO BOARD				
		**********				
		< CAPACITOR >				
C260	1-126-960-11	ELECT	1uF	20%	50V	
C261	1-126-960-11	ELECT	1uF	20%	50V	
C262	1-164-159-11	CERAMIC	0.1uF		50V	
C263	1-104-664-11	ELECT	47uF	20%	25V	
C264	1-164-159-11	CERAMIC	0.1uF		50V	
C265	1-126-924-11	ELECT	330uF	20%	10V	
C266	1-162-215-31	CERAMIC	47PF	5%	50V	
C267	1-162-215-31	CERAMIC	47PF	5%	50V	
C268	1-126-960-11	ELECT	1uF	20%	50V	
CC272	1-162-282-31	CERAMIC	100PF	10%	50V	(AEP,UK,G,EE)
CC274	1-162-282-31	CERAMIC	100PF	10%	50V	(AEP,UK,G,EE)
CC276	1-162-282-31	CERAMIC	100PF	10%	50V	(AEP,UK,G,EE)
CC278	1-162-282-31	CERAMIC	100PF	10%	50V	(AEP,UK,G,EE)
CC280	1-162-282-31	CERAMIC	100PF	10%	50V	(AEP,UK,G,EE)
		< CONNECTOR >				
CNP500	1-691-771-11	PLUG (MICRO CONNECTOR) 9P				
CNS250	1-568-439-11	SOCKET, CONNECTOR 7P				
		< IC >				
IC251	8-759-333-84	IC NJM2279D				
		< JACK >				
J251	1-695-317-21	JACK,PIN 2P(VIDEO/TV/LD VIDEO IN)				
J252	1-766-199-11	JACK,PIN 3P(VIDEO OUT/VIDEO IN/MONITOR)				
J253	1-774-843-11	JACK,PIN 1P(WOOFER AUDIO OUT)				
J501	1-779-380-11	JACK,PIN 6P(FRONT/REAR/CENTER/WOOFER)				
		< RESISTOR >				
R261	1-247-804-11	CARBON	75	5%	1/4W	
R262	1-247-804-11	CARBON	75	5%	1/4W	
R263	1-247-804-11	CARBON	75	5%	1/4W	
R264	1-247-804-11	CARBON	75	5%	1/4W	
⚠R267	1-249-407-11	CARBON	150	5%	1/4W	F
R268	1-249-411-11	CARBON	330	5%	1/4W	
⚠R269	1-247-804-11	CARBON	75	5%	1/4W	(US,CND,AUS,E,SP,MY,CH)
R272	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R274	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R275	1-249-429-11	CARBON	10K	5%	1/4W	
R276	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R277	1-249-429-11	CARBON	10K	5%	1/4W	
R278	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R280	1-249-421-11	CARBON	2.2K	5%	1/4W	F
R282	1-249-421-11	CARBON	2.2K	5%	1/4W	F
**********						
*	A-4407-451-A	VR-TONE BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C220	1-126-301-11	ELECT	1uF	20%	50V	
C221	1-126-301-11	ELECT	1uF	20%	50V	
C361	1-164-159-11	CERAMIC	0.1uF		50V	
C362	1-164-159-11	CERAMIC	0.1uF		50V	
C363	1-164-159-11	CERAMIC	0.1uF		50V	
C364	1-164-159-11	CERAMIC	0.1uF		50V	
C365	1-164-159-11	CERAMIC	0.1uF		50V	
C366	1-164-159-11	CERAMIC	0.1uF		50V	
C381	1-126-963-11	ELECT	4.7uF	20%	50V	
C382	1-126-963-11	ELECT	4.7uF	20%	50V	
C383	1-126-963-11	ELECT	4.7uF	20%	50V	
C384	1-126-963-11	ELECT	4.7uF	20%	50V	
C385	1-126-963-11	ELECT	4.7uF	20%	50V	
C421	1-137-440-11	FILM	0.018uF	5%	50V	
C422	1-124-463-00	ELECT	0.1uF	20%	50V	
C423	1-137-368-11	FILM	0.0047uF	5%	50V	
C424	1-137-372-11	FILM	0.022uF	5%	50V	
C471	1-137-440-11	FILM	0.018uF	5%	50V	
C472	1-124-463-00	ELECT	0.1uF	20%	50V	
C473	1-137-368-11	FILM	0.0047uF	5%	50V	
C474	1-137-372-11	FILM	0.022uF	5%	50V	
		< CONNECTOR >				
CNP202	1-770-393-11	PIN, CONNECTOR (PC BOARD) 9P				
CNS402	1-568-442-11	SOCKET, CONNECTOR 9P				
CNS502	1-568-443-11	SOCKET, CONNECTOR 13P				
		< DIODE >				
D238	8-719-046-39	DIODE SEL5821A-TH15 (MUTING)				
		< TRANSISTOR >				
Q361	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q362	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q363	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q364	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q365	8-729-141-30	TRANSISTOR 2SC3623A-LK				
Q366	8-729-141-30	TRANSISTOR 2SC3623A-LK				
		< RESISTOR >				
R229	1-249-406-11	CARBON	120	5%	1/4W	F
R351	1-249-417-11	CARBON	1K	5%	1/4W	F
R352	1-249-417-11	CARBON	1K	5%	1/4W	F
R353	1-249-417-11	CARBON	1K	5%	1/4W	F
R354	1-249-417-11	CARBON	1K	5%	1/4W	F

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Ref. No.	Part No.	Description			Remarks
R355	1-249-417-11	CARBON	1K	5%	1/4W F
R356	1-249-417-11	CARBON	1K	5%	1/4W F
R361	1-249-425-11	CARBON	4.7K	5%	1/4W F
R362	1-249-425-11	CARBON	4.7K	5%	1/4W F
R363	1-249-425-11	CARBON	4.7K	5%	1/4W F
R364	1-249-425-11	CARBON	4.7K	5%	1/4W F
R365	1-249-425-11	CARBON	4.7K	5%	1/4W F
R366	1-249-425-11	CARBON	4.7K	5%	1/4W F
R367	1-249-441-11	CARBON	100K	5%	1/4W
R368	1-249-441-11	CARBON	100K	5%	1/4W
R369	1-249-441-11	CARBON	100K	5%	1/4W
R370	1-249-441-11	CARBON	100K	5%	1/4W
R371	1-249-441-11	CARBON	100K	5%	1/4W
R372	1-249-441-11	CARBON	100K	5%	1/4W
R421	1-249-430-11	CARBON	12K	5%	1/4W
R422	1-249-422-11	CARBON	2.7K	5%	1/4W F
R423	1-247-903-00	CARBON	1M	5%	1/4W
R424	1-247-903-00	CARBON	1M	5%	1/4W
R425	1-249-415-11	CARBON	680	5%	1/4W F
R471	1-249-430-11	CARBON	12K	5%	1/4W
R472	1-249-422-11	CARBON	2.7K	5%	1/4W F
R473	1-247-903-00	CARBON	1M	5%	1/4W
R474	1-247-903-00	CARBON	1M	5%	1/4W
R475	1-249-415-11	CARBON	680	5%	1/4W F
		< VARIABLE RESISTOR >			
RV404	1-225-446-11	RES, VAR, CARBON 100KX6 (MASTER VOLUME)			
RV421	1-223-362-11	RES, VAR, CARBON 100K/100K (BASS)			
RV422	1-223-363-11	RES, VAR, CARBON 125K/125K (TREBLE)			
RV423	1-225-447-11	RES, VAR, CARBON 100K/100K (BALANCE)			
		< SWITCH >			
S240	1-762-751-11	SWITCH, TACTILE			
**********					
*	1-669-276-11	10 KEY BOARD **********			
		< CONNECTOR >			
CNS205	1-770-397-11	HOUSING, CONNECTOR(PC BOARD)4P			
		< RESISTOR >			
R232	1-249-411-11	CARBON	330	5%	1/4W
R233	1-249-413-11	CARBON	470	5%	1/4W F
R234	1-249-415-11	CARBON	680	5%	1/4W F
R235	1-249-417-11	CARBON	1K	5%	1/4W F
R236	1-249-419-11	CARBON	1.5K	5%	1/4W F
R237	1-249-421-11	CARBON	2.2K	5%	1/4W F
R238	1-247-843-11	CARBON	3.3K	5%	1/4W
R239	1-249-411-11	CARBON	330	5%	1/4W
R240	1-249-413-11	CARBON	470	5%	1/4W F
R241	1-249-415-11	CARBON	680	5%	1/4W F
R242	1-249-417-11	CARBON	1K	5%	1/4W F
R243	1-249-419-11	CARBON	1.5K	5%	1/4W F
R244	1-249-421-11	CARBON	2.2K	5%	1/4W F
R245	1-247-843-11	CARBON	3.3K	5%	1/4W
R246	1-249-411-11	CARBON	330	5%	1/4W

Ref. No.	Part No.	Description			Remarks
R247	1-249-413-11	CARBON	470	5%	1/4W F
R248	1-249-415-11	CARBON	680	5%	1/4W F
R249	1-249-417-11	CARBON	1K	5%	1/4W F
R250	1-249-419-11	CARBON	1.5K	5%	1/4W F
R251	1-249-421-11	CARBON	2.2K	5%	1/4W F
R252	1-247-843-11	CARBON	3.3K	5%	1/4W
R253	1-249-425-11	CARBON	4.7K	5%	1/4W F
		< SWITCH >			
S217	1-554-303-21	SWITCH, TACTILE (EFFECT/DELAY)			
S218	1-554-303-21	SWITCH, TACTILE (SURROUND ON/OFF)			
S219	1-554-303-21	SWITCH, TACTILE (BASS BOOST)			
S220	1-554-303-21	SWITCH, TACTILE (PHONES)(AEP,UK,G,EE)			
S221	1-554-303-21	SWITCH, TACTILE (TUNER) (AEP,UK,G,EE)			
S222	1-554-303-21	SWITCH, TACTILE (TV/LD)			
S223	1-554-303-21	SWITCH, TACTILE (VIDEO)			
S224	1-554-303-21	SWITCH, TACTILE (SHIFT)			
S225	1-554-303-21	SWITCH, TACTILE (6)			
S226	1-554-303-21	SWITCH, TACTILE (7)			
S227	1-554-303-21	SWITCH, TACTILE (8)			
S228	1-554-303-21	SWITCH, TACTILE (9)			
S229	1-554-303-21	SWITCH, TACTILE (0)			
S230	1-554-303-21	SWITCH, TACTILE (SET UP)			
S231	1-554-303-21	SWITCH, TACTILE (CD) (AEP,UK,G,EE)			
S232	1-554-303-21	SWITCH, TACTILE (DIRECT TUNING)			
S233	1-554-303-21	SWITCH, TACTILE (1)			
S234	1-554-303-21	SWITCH, TACTILE (2)			
S235	1-554-303-21	SWITCH, TACTILE (3)			
S236	1-554-303-21	SWITCH, TACTILE (4)			
S237	1-554-303-21	SWITCH, TACTILE (5)			
S238	1-554-303-21	SWITCH, TACTILE (TAPE/MD)			
S239	1-554-303-21	SWITCH, TACTILE (MODE)			
S241	1-762-751-11	SWITCH, TACTILE (TUNER) (US,CND,AUS,E,SP,MY,CH)			
S242	1-762-751-11	SWITCH, TACTILE (CD) (US,CND,AUS,E,SP,MY,CH)			
S243	1-554-303-21	SWITCH, TACTILE (5.1/DVD INPUT)			
**********					
		MISCELLANEOUS **********			
12	1-782-086-11	WIRE (FLAT TYPE) (27 CORE)			
13	1-769-911-11	WIRE (FLAT TYPE) (9 CORE)			
14	1-769-972-11	WIRE (FLAT TYPE) (13 CORE)			
⚠58	1-777-071-21	CORD, POWER (E,SP,MY,CH)			
⚠58	1-783-203-11	CORD, POWER (AUS)			
⚠58	1-783-204-11	CORD, POWER (US,CND)			
63	1-693-407-41	TUNER (US,CND)			
63	1-693-408-41	TUNER (AUS,AEP,UK,G,E,SP,MY,CH)			
63	1-693-411-41	TUNER (EE)			
64	1-782-080-11	WIRE (FLAT TYPE) (15 CORE)			
65	1-782-074-11	WIRE (FLAT TYPE) (7 CORE)			
⚠CNJ902	1-251-416-11	OUTLET, AC (AUS)			
⚠CNJ902	1-526-794-11	OUTLET, AC (AEP,G,EE,E,SP,MY,CH)			
⚠T901	1-431-267-11	TRANSFORMER, POWER (US)			
⚠T901	1-431-268-11	TRANSFORMER, POWER (CND)			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

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Ref. No.	Part No.	Description	Remarks
⚠T901	1-431-270-11	TRANSFORMER, POWER (AUS)	
⚠T901	1-431-791-11	TRANSFORMER, POWER (AEP,UK,G,EE)	
⚠T901	1-431-792-11	TRANSFORMER, POWER (E,SP,MY,CH)	

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ACCESSORIES & PACKING MATERIALS
****

	1-475-710-11	REMOTE COMMANDER RM-U302 (EXCEPT CND)
	1-501-374-11	ANTENNA, LOOP
	1-501-594-11	ANTENNA (FM)(EXCEPT US,CND)
	4- 981-643-11	BATTERY COVER (FOR RM-U302) (EXCEPT CND)
	4-987-977-01	BATTERY COVER (FOR RM-PP401) (CND)
	8-917-634-90	REMOTE COMMADER RM-PP401(CND)
	3-862-354-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, DUTCH, ITALIAN)
	3-862-354-21	MANUAL, INSTRUCTION (ENGLISH)
	3-862-354-31	MANUAL, INSTRUCTION (ENGLISH, FRENCH)
	3-862-354-41	MANUAL, INSTRUCTION (SPANISH, SWEDISH, FINNISH, DANISH, PORTUGUESE)
	3-862-354-51	MANUAL, INSTRUCTION (ENGLISH, RUSSIAN, POLISH)
	3-862-354-61	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE)

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****
HARDWARE LIST
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#1	7-685-646-79	SCREW +BVTP 3 × 8 TYPE2 IT-3
#2	7-685-881-09	SCREW +BVTT 4 × 8 (S)
#3	7-685-872-09	SCREW +BVTT 3 × 8 (S)

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9-922-811-11

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